



SmartMonitor

User's Guide

Version: 1.0

Date: 2009/01/12

Copyright Information

Copyright Declarations

Copyright 2009 All rights reserved. This publication contains information that is protected by copyright. No part may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language without written permission from the copyright holders.

Trademarks

The following trademarks are used in this document:

- Microsoft is a registered trademark of Microsoft Corp.
- Windows, Windows 95, 98, Me, NT, 2000, XP, Vista and Explorer are trademarks of Microsoft Corp.
- Apple and Mac OS are registered trademarks of Apple Inc.
- Other products may be trademarks or registered trademarks of their respective manufacturers.

Safety Instructions and Approval

Warranty

We warrant to the original end user (purchaser) that the router will be free from any defects in workmanship or materials for a period of two (2) years from the date of purchase from the dealer. Please keep your purchase receipt in a safe place as it serves as proof of date of purchase. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, we will, at our discretion, repair or replace the defective products or components, without charge for either parts or labor, to whatever extent we deem necessary to restore the product to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal value, and will be offered solely at our discretion. This warranty will not apply if the product is modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions. The warranty does not cover the bundled or licensed software of other vendors. Defects which do not significantly affect the usability of the product will not be covered by the warranty. We reserve the right to revise the manual and online documentation and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes.

Be a Registered Owner

Web registration is preferred. You can register your Vigor router via <http://www.draytek.com>.

Firmware & Tools Updates

Due to the continuous evolution of DrayTek technology, all routers will be regularly upgraded. Please consult the DrayTek web site for more information on newest firmware, tools and documents.

<http://www.draytek.com>

Table of Contents

1

Introduction.....	1
1.1 Introduction	1
1.2 System Requirements.....	1
1.3 Topology	2
1.4 Installation	3

2

Basic Operation	14
2.1 Activating SmartMonitor	14
2.2 Enter Web User Interface.....	14
2.3 Anonymous Logging.....	17
2.4 Group/Department Operation	17
2.5 User List Operation	18
2.6 Create/Modify Admin Account.....	20
2.7 Adjust System Settings	22

3

Advanced Operation.....	23
3.1 System	23
3.1.1 Admin.....	23
3.1.2 Privilege	25
3.1.3 Setting.....	27
3.1.4 Configuration Backup/Restoration.....	28
3.1.5 Event Log.....	28
3.1.6 Resources.....	30
3.1.7 Log Out.....	30
3.2 User Setting	30
3.2.1 Group/Department.....	31
3.2.2 User List.....	33
3.2.3 Tree View.....	34
3.3 Service Analysis	35
3.3.1 FTP	36
3.3.2 MAIL.....	39
3.3.3 HTTP.....	39
3.3.4 IM.....	40
3.3.5 TELNET	41
3.3.6 P2P	42
3.3.7 WEBDOWN	43
3.3.8 STOCK.....	45
3.3.9 Top 10.....	46

3.4 User Analysis	46
3.4.1 Records & Report	47
3.4.2 User By Traffic	48
3.4.3 Top 10.....	48
3.5 Report.....	49
3.5.1 Service Traffic.....	49
3.5.2 Statistics.....	50
3.5.3 Preview & Export	50

4

Application	52
4.1 Be a Good Network Administrator.....	52
4.1.1 Reducing Web Page Visiting of Non-Work Usage	52
4.1.2 Reducing IM Application of Non-Work Usage	53
4.1.3 Best Configuration for Other Network Service	54
4.2 Leading in Self-Managing for Creating High Efficiency Office Environment.....	54

1

Introduction

1.1 Introduction

SmartMonitor, a verification software for network information, can capture, filter and analyze network information for different purposes by integrating with Vigor series router. With SmartMonitor, the administrator can adopt the content that user cares and restore the data to readability information and produce various reports for reference.

Administrator of enterprise might torment with the following things:

1. Overused IM software and affect work efficiency on duty time
2. Download file unlimitedly through bandwidth and cause congestion in normal usage.
3. Reveal company's confidential information through IM software easily

The first thing that Smart Monitor can do for the enterprise is to solve the network problem. By verifying network information, Smart Monitor can assist enterprise's administrator to solve different problems derived from the network application effectively. No matter network logging record, e-mail record or IM chatting record, or file download, Smart Monitor can analyze and arrange those records clearly and well for the administrator to manage and check with ease.

Smart Monitor not only can manage network, but also it can bring out new concept of auto-management for the enterprise. Traditional management mode is passive management. It means the employees always restrict their behavior in network usage after notified, even warned by the network administrator. Thus, employees might feel uncomfortable and management problems usually will be produced in such circumstance. For such situation, Smart Monitor provides Top 10 ranking function and allows users to check Top 10 of network applications at any time, such as IM Top 10, Download Top 10 and etc. When employees find the username/IP address being listed on Top 10, they will restrict their behaviors in network usage automatically. Thus, self-managing of employees can be formed naturally.

Top 10 also can carry out ranking for different service types to assist network administrator finding out network usage custom of users in local network. With such analysis, the administrator can design and plan better network management to reach the optimum work efficiency of the enterprise.

In addition to enterprise, Smart Monitor can be applied in general families. The network development not only gives us convenient information, but also it brings unhealthy information such as pornography, violence to children and threatens the growth of the children. With good deployment of Smart Monitor, parents can monitor network usage of children and adjust network configuration to discard unhealthy network visits and offer a good network environment to children.

1.2 System Requirements

- Intel P4 1.4GHz and above /AMD CPU
- 20 GB free hard disk at least
- 1GB RAM and above

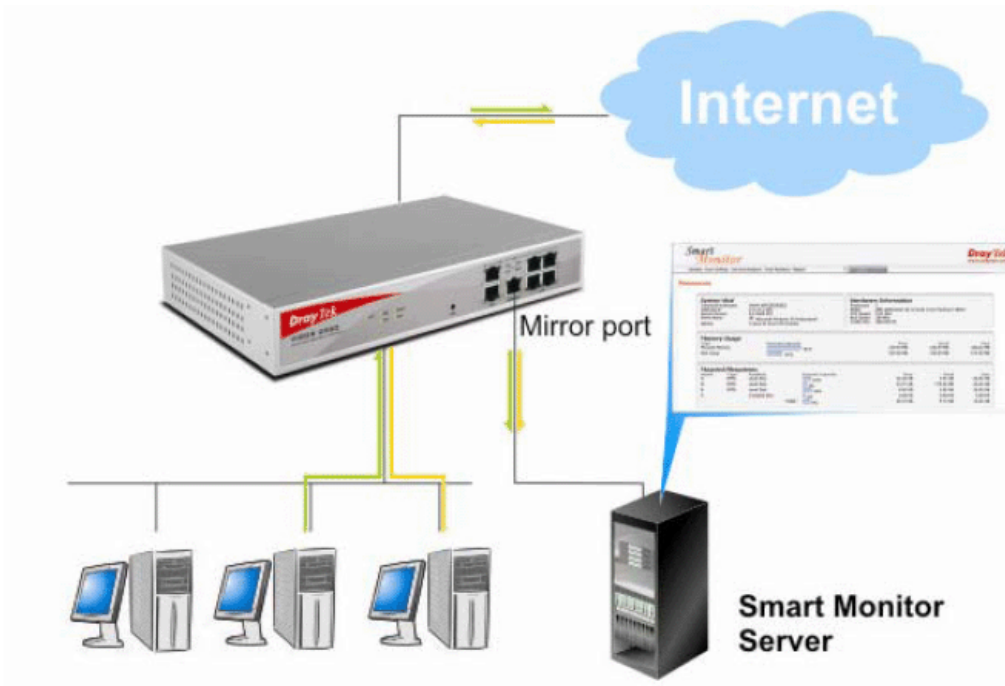
- Vigor Router, e.g., Vigor 2950

Note:

1. FTP and e-mail applications might occupy lots of disk space. If the usage of FTP and e-mail will be large, please prepare larger disk space for installing and using Smart Monitor.
2. Smart Monitor can be operated in the condition less than the above requirement. However, in the environment of less disk space, network information might be omitted by Smart Monitor due to the high peak of network usage.
3. For Smart Monitor might be influence lots of system applications, it would be better to install it in “clear and pure” system environment. Microsoft IIS might conflict with Apache which is required for installing Smart Monitor. Therefore, do not install and operate Microsoft IIS, or change the port number for Microsoft outside 80.

1.3 Topology

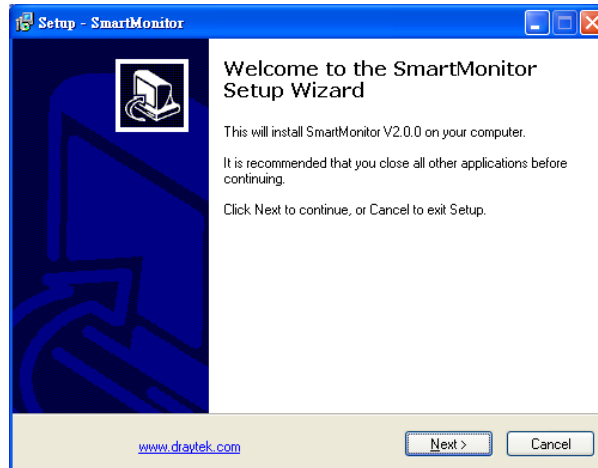
Connect a PC with Smart Monitor installed to the mirror port of the device (such as VigorPro 5510, Vigor2950, and etc.) to capture monitored information.



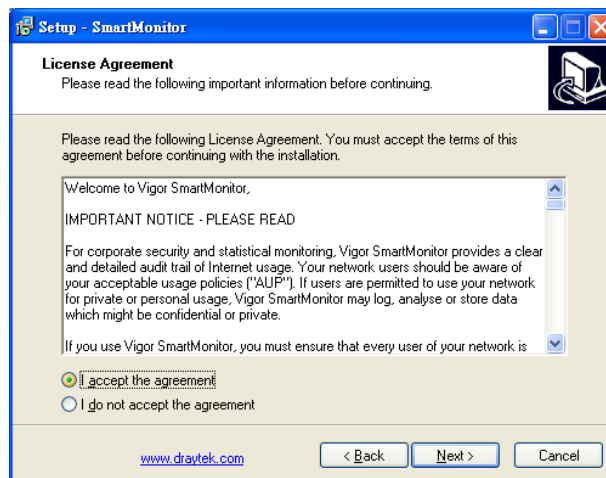
1.4 Installation

Please follow the steps below to install SmartMonitor to the host (served as the database of SmartMonitor).

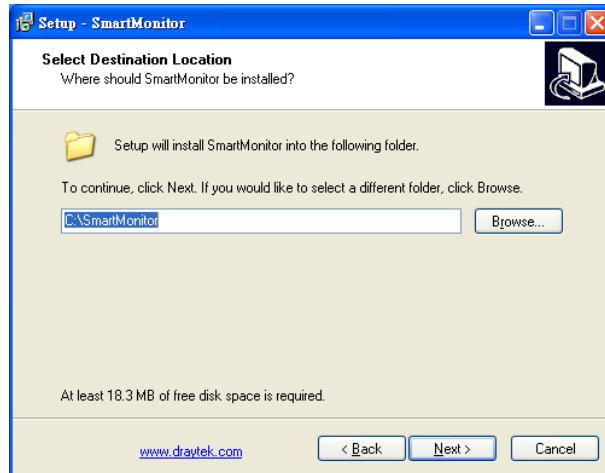
1. Insert the application software CD of SmartMonitor into the CD-ROM diskette.
2. Click the icon of SmartMonitor_Install_2.0.0. The Setup Wizard will appear as follows. Please click **Next** to proceed.



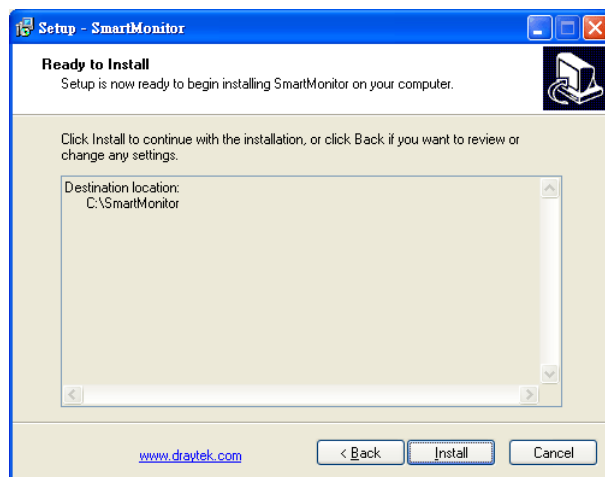
3. In the License Agreement page, choose "**I accept the agreement**" and click **Next**.



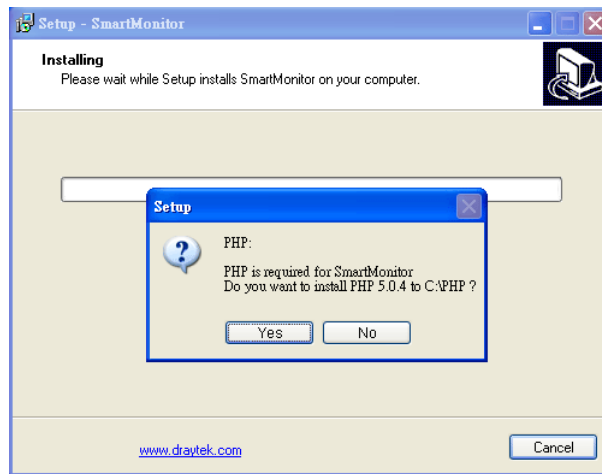
4. Specify the destination location for SmartMonitor. The default directory is shown as below. You can click **Browse** to change the location. Then, click **Next** to proceed.



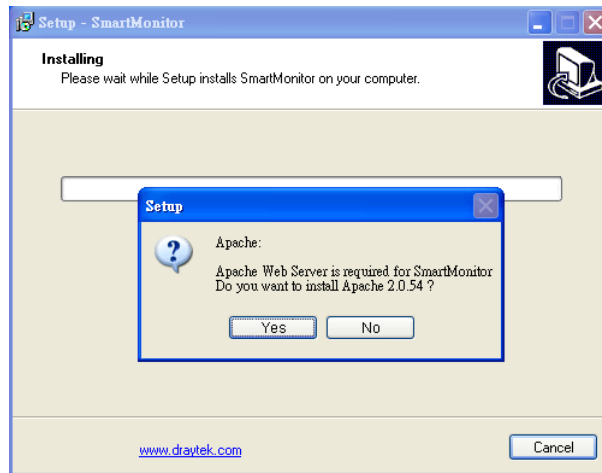
5. The setup wizard shows the destination location that you just specify. If there is no problem, simply click Install to carry out the installation.



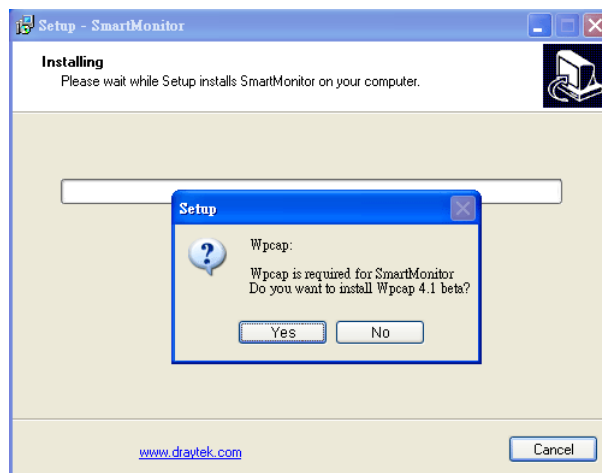
6. A pop-up dialog will appear to inform you PHP is required for SmartMonitor. Simply click **Yes**.



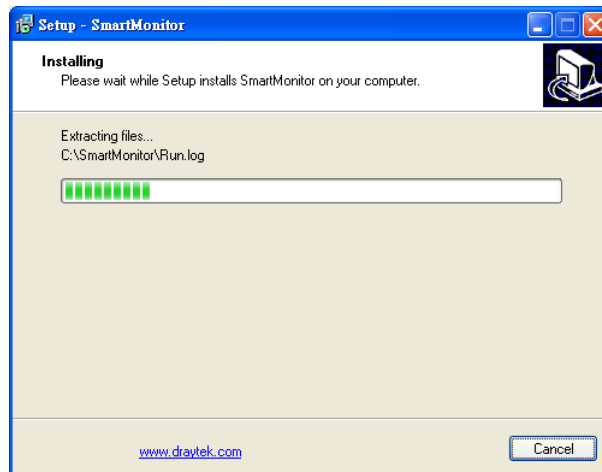
7. Next, another pop-up dialog will appear to inform you Apache is required for SmartMonitor. Please click **Yes**.



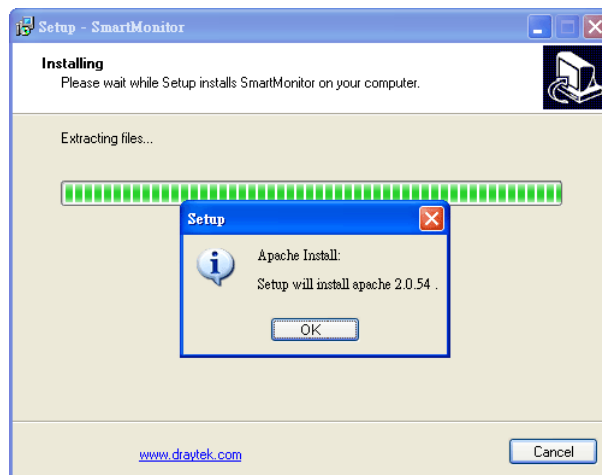
8. Then, the following dialog will appear to inform you Wpcap is required for SmartMonitor. Click **Yes**.



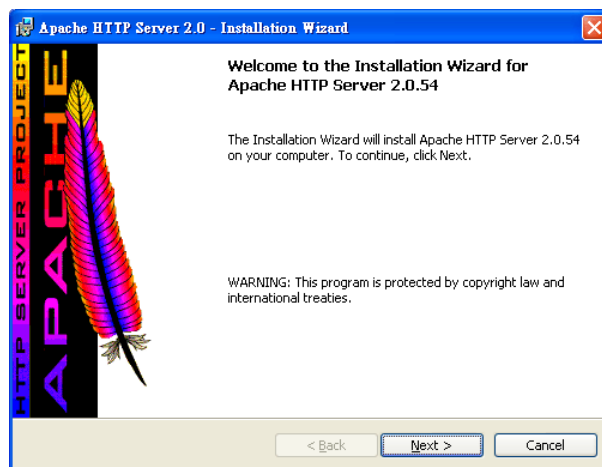
9. The installation starts. Please wait for a while.



10. When the file extracting is complete, a Setup dialog for installing Apache will be popped-up. Click **OK**.

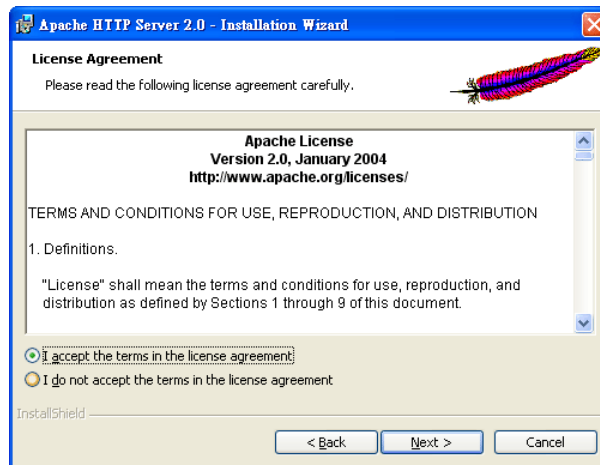


11. Another Installation Wizard for Apache will appear as follows. Please click **Next** to carry out the installation.

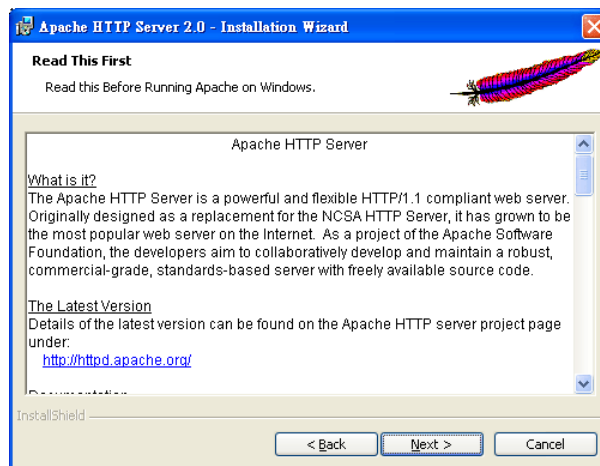


If it is not necessary for you to install Apache, please go to step 20 directly.

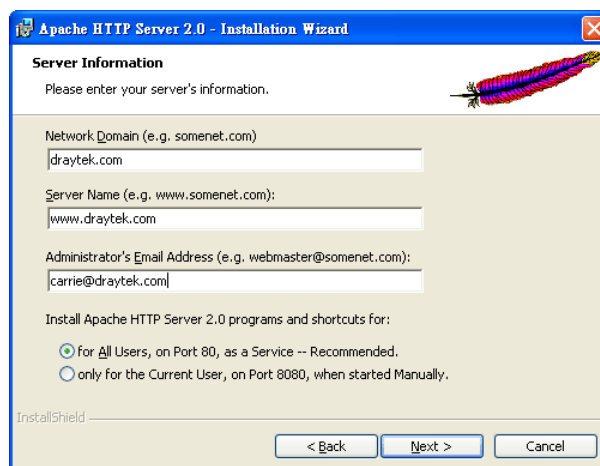
12. On the following screen, choose “**I accept the**” and click **Next**.



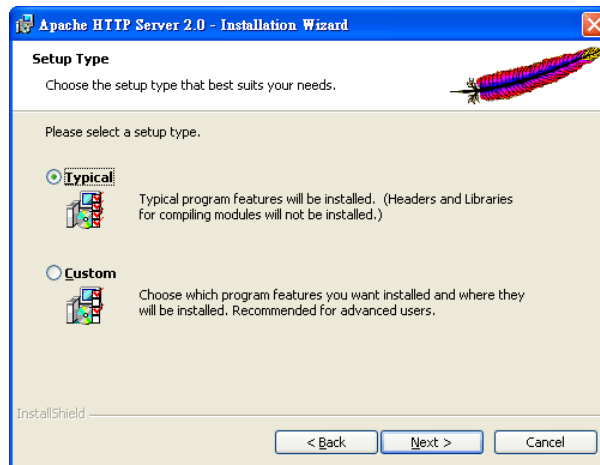
13. In the following screen, click **Next**.



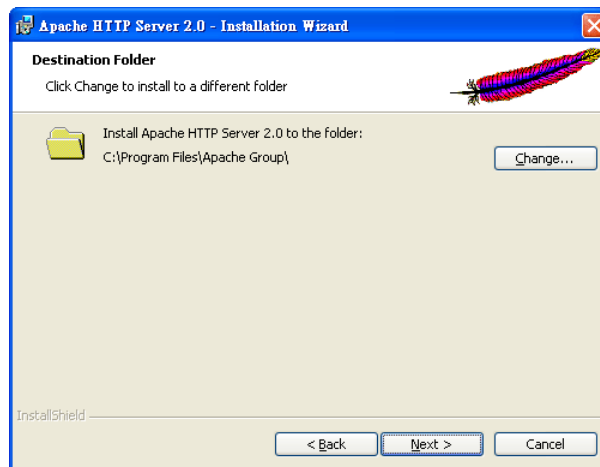
14. Type all the required information and click **Next**.



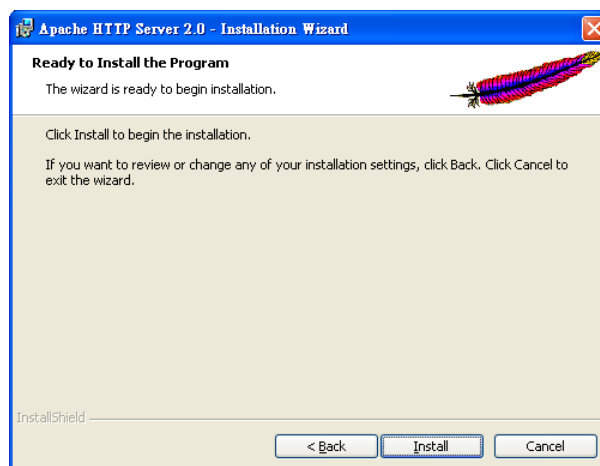
15. Select **Typical** and click **Next**.



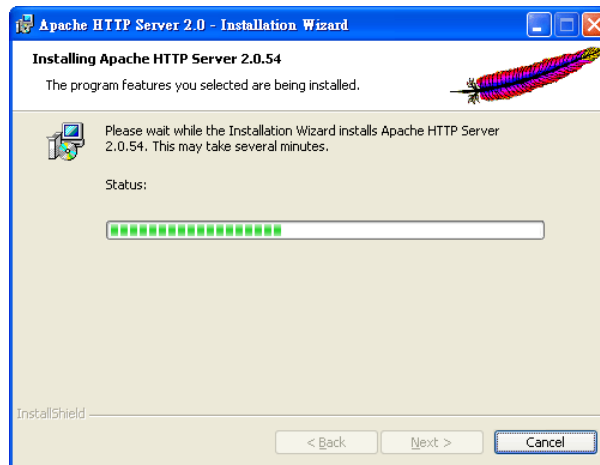
16. Specify the destination folder. You can click **Change**, to specify another folder for installing Apache. Then, click **Next**.



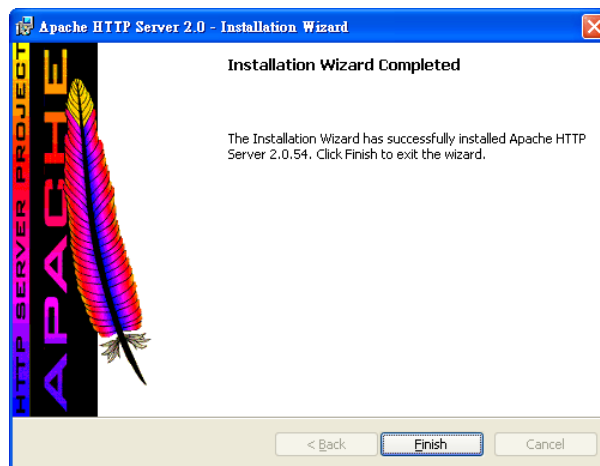
17. On the following screen, click **Install**.



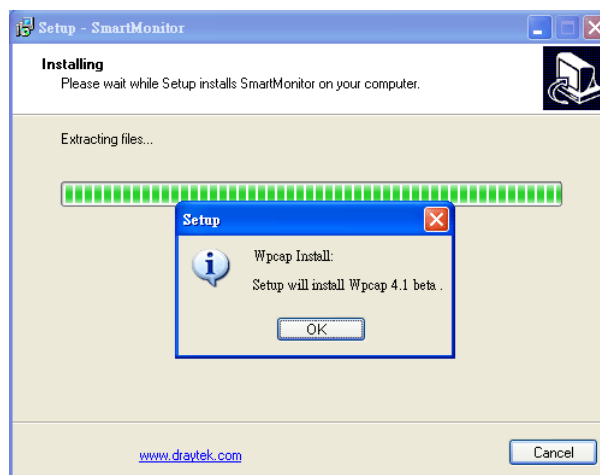
18. Corresponding files will be installed to your system. Please wait for several minutes.



19. When the following screen appears, simply click **Finish**.



20. Next, Setup wizard will guide you to install Wpcap. Click **OK** to proceed.

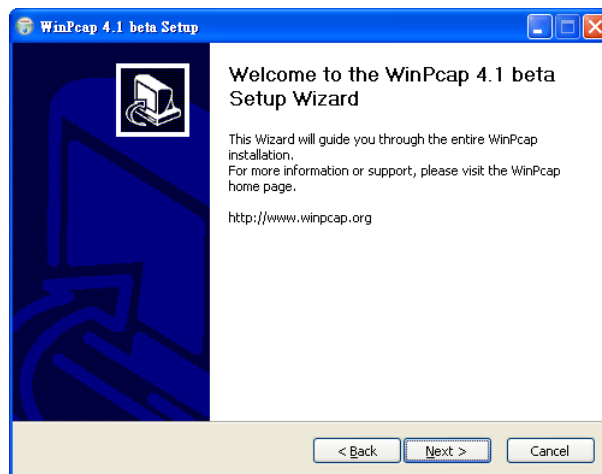


If it is not necessary for you to install Wpcap, please go to step 26 directly.

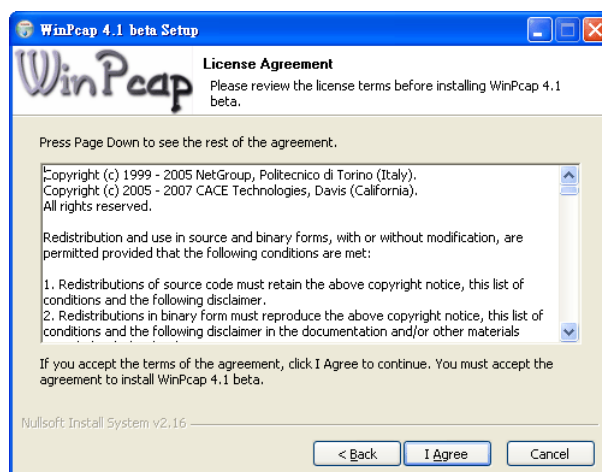
21. When the following screen appears, please click **Next** to proceed.



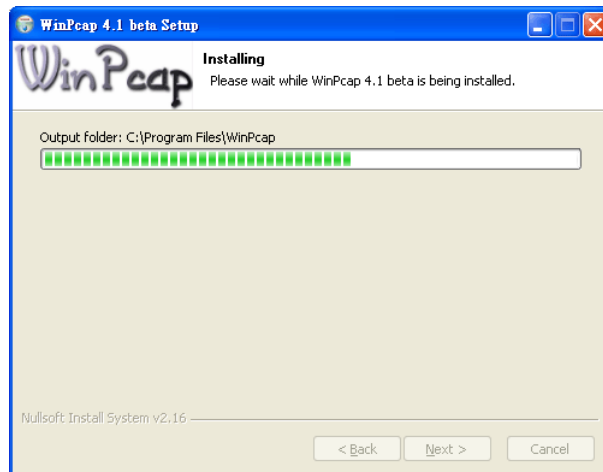
22. On the following screen, please click **Next** again.



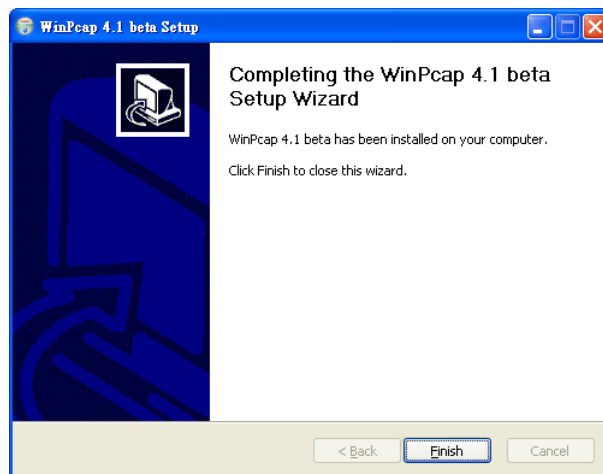
23. On this page, just click **I Agree**.



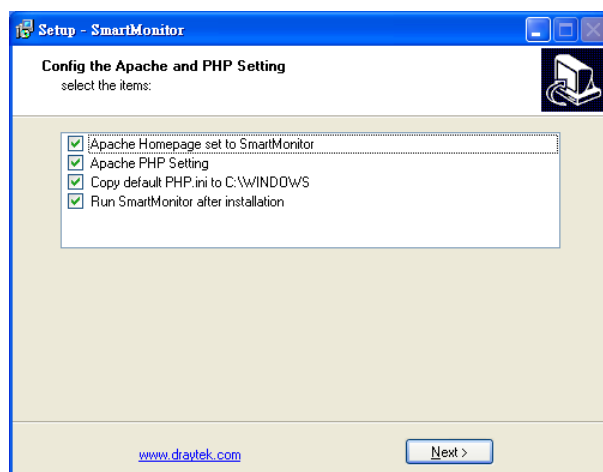
24. The setup wizard starts to install WinPcap into your host. Please wait for a while.



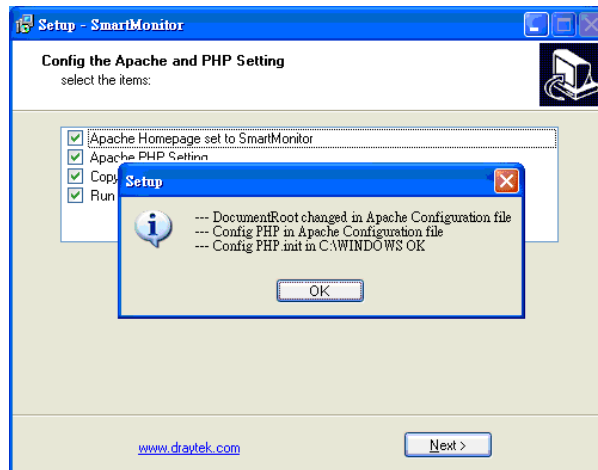
25. When the following page appears, the installation has been completed. Click **Finish**.



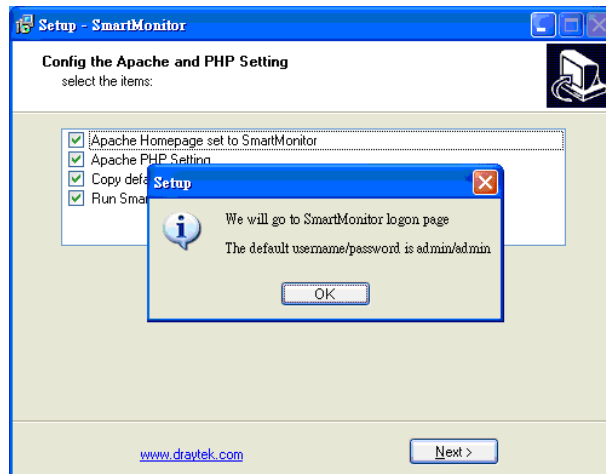
26. Next, Setup wizard will display the following screen. Click **Next** to proceed.



27. When the following dialog pops up, click **OK**.



28. Now, the following dialog appears to inform you that you are going to login SmartMonitor home page with default username/password of admin/admin. Please click **OK**.



29. Before you start to use SmartMonitor, please click **Finish** first to exit the SmartMonitor setup wizard.

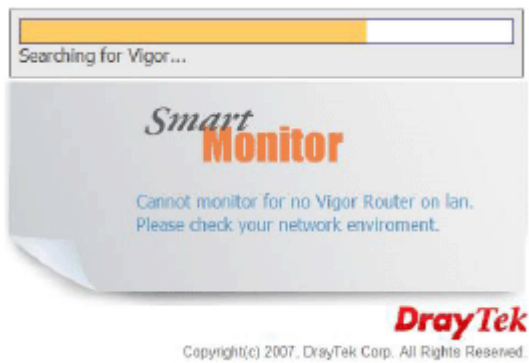


30. After finishing the installation, SmartMonitor main program will invoke automatically and the browser will pop up a login window (for Smart Monitor managing interface) for

you to login. If the IP address has be configured correctly, all PCs on LAN can use IE browser to visit Smart Monitor easily.



31. If network connection is not processed correctly or the IP address is not set properly, a searching screen might appear as the following figure:



2

Basic Operation

2.1 Activating SmartMonitor

After finishing the software installation, please open **Start>>Programs>>SmartMonitor>>SmartMonitor** to activating the application.

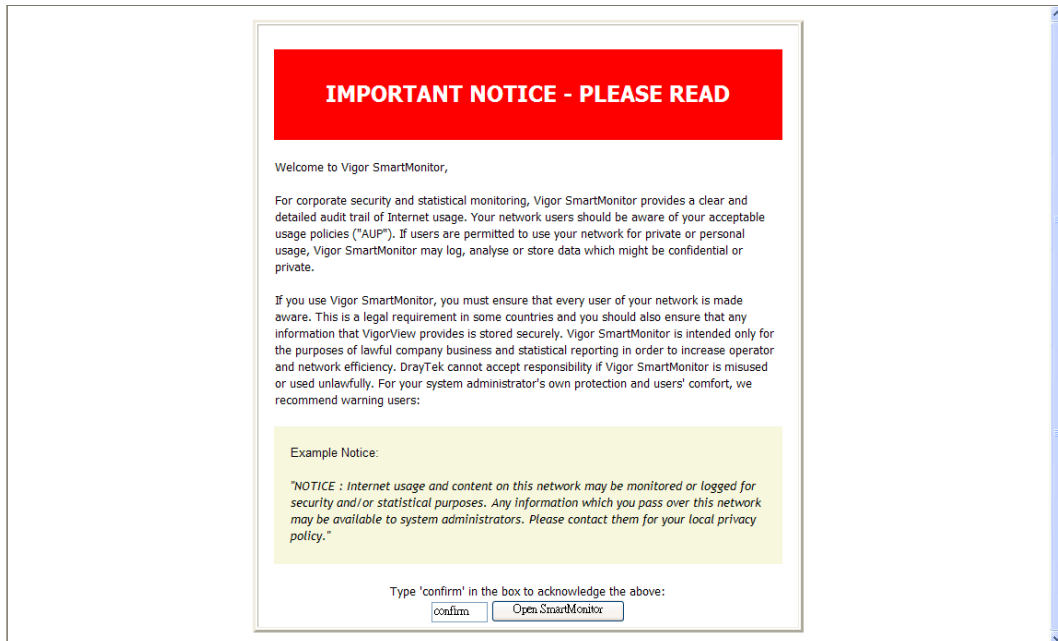


When SmartMonitor is activated, you can find the icon located on right bottom of the desktop that indicates SmartMonitor is on working now.



2.2 Enter Web User Interface

To specify which PC should be monitored, please open **Start>>Programs>>SmartMonitor>>Website** to access into the configuration web page.



Confirm page will appear first. Please type the word-**confirm** in the box and click **OpenSmartMonitor** to open the following page.

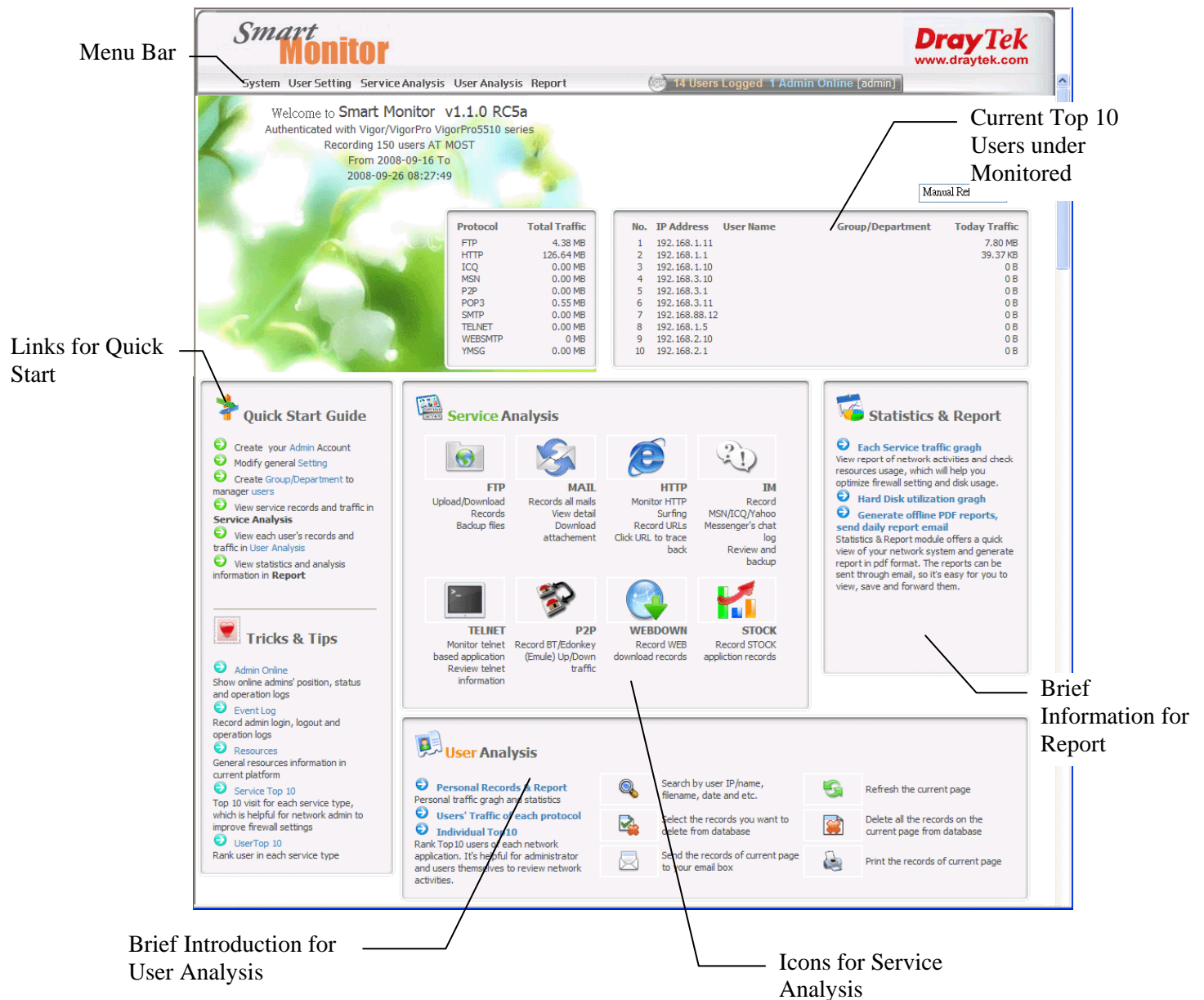
The image shows a login form for 'Smart Monitor'. The title 'Smart Monitor' is displayed in a stylized font, with 'Smart' in black and 'Monitor' in orange. Below the title, there are two input fields: 'Username' with the text 'admin' and 'Password' with six black dots. To the right of the password field is a blue link that says 'Forget password?'. At the bottom of the form, there are two buttons: 'Anonymous Login' and 'Login' with a blue arrow icon. The entire form is presented on a light gray background that looks like a piece of paper with a folded corner at the bottom left.

DrayTek

Copyright(c) 2007, DrayTek Corp. All Rights Reserved.

Next, type the username and password. The default values for user name and password are “*admin*” and “*admin*”. Click **Login** to access into the configuration web pag.

Below shows the home page of SmartMonitor. It can be divided into several sections.



Menu Bar

Display available menus.

Links for Quick Start

Provide links to execute basic operation.

Brief Introduction for User Analysis

Display brief introduction for the contents of user analysis.

Icons for Service Analysis

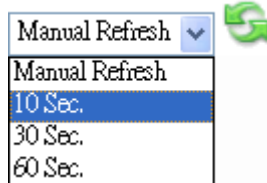
Provide icons to check service analysis. Simply double-click on them. The system will open the corresponding pages.

Brief Information for Report

Display brief explanation that Report contains.

Current Top 10 Users under Monitored

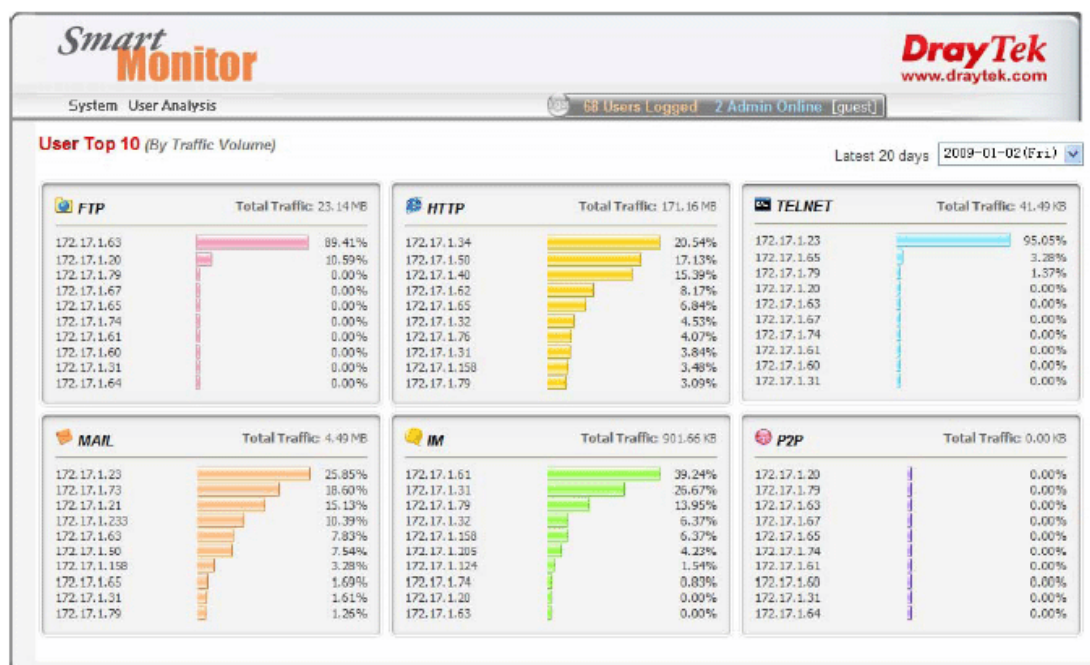
Display a table of IP address, user name, group/department, total amount for current top 10 monitored users. Such table can be refreshed automatically within 10 seconds, 30 seconds or 60 seconds according to the settings that you choose. If you choose Manual Refresh, you have to press the Refresh icon to renew the table by yourself.



2.3 Anonymous Logging

Smart Monitor offers the function of anonymous logging. This function is used for the anonymous user to check the ranking of network service usage to carry out self-managing.


Anonymous logging is unable to use/see all the functions of Smart Monitor. Only user Top 10 and traffic ranking pages are allowed. With these two web pages, users can know the usage ranking in different network service. If they find their ranking is near to the top one, they can do self-restriction and reduce non-job network usage. Thus, network usage efficiency of the enterprise can be raised.



2.4 Group/Department Operation

By grouping the users, the administrator can set different monitoring contents for different users. Meanwhile, the administrator can dispatch the users to suitable groups quickly to make the group operation of users being easily.

Please follow the steps listed below to create a new one.

1. Click the **Group/Department** link from the **Create Group/Department to manager users** located in Quick Start area, or open **User Settings>>Group/Department**.
2. Click the New  icon. The following screen will appear.

New Group/Department

3. Type a name (e.g., office-1) for the group in the field of Group Name. Give a brief explanation for such group. Check the **Active** box.
4. In the Recording field, choose the service(s) that SmartMonitor will record and monitor for such group.
5. Click **Save**.

Below shows a figure of new group added.

Group/Department



Group Name	Description	Active	Emphasize	Members	Delete
office-1	for marketing	Y	N	0	
Others	Default Group/Department	Y	N	15	

2.5 User List Operation

To utilize SmartMonitor for monitoring, the first thing you have to do is “create a user name”. Such user account can be grouped under any group/department specified later and be monitored by SmartMonitor.

After initiating SmartMonitor, the IPs in the network segment specified by the network card of SmartMonitor will be caught and displayed automatically.

We can use setting username or grouping the user to have convenient management. Refer to the following steps for grouping or setting user name.

1. Open **User Settings>>User List**.
2. There are eight items with different purposes for each IP address, such as number, recording, IP address, user name, group, emphasize, LAN-to-LAN and delete.


No.	<input type="checkbox"/> Recording	IP	User Name	Group	<input type="checkbox"/> Emphasize	<input type="checkbox"/> LAN-to-LAN	Delete
1	<input checked="" type="checkbox"/>	192.168.1.53*	carrie-pc	Others	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	<input checked="" type="checkbox"/>	192.168.1.1		Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	<input checked="" type="checkbox"/>	192.168.2.1		Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	<input checked="" type="checkbox"/>	192.168.3.1		Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	<input checked="" type="checkbox"/>	192.168.1.5		Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	<input checked="" type="checkbox"/>	1.1.1.10		Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	<input checked="" type="checkbox"/>	192.168.1.10		Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	<input checked="" type="checkbox"/>	192.168.2.10		Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	<input checked="" type="checkbox"/>	192.168.3.10		Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/>	192.168.10.10		Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

- No** The index number of the IP address.
- Recording** Check the box to record the network usage of the IP address.
- IP** Define a name for each user. Such name is easily and convenient to be identified when viewing various records such as Top 10.
- Group** Make a group for such IP address.
- Emphasize** If you check the box here, a red sign “*” will be marked between the fields of user name and IP address. Such mark is used to remind the administrator that this user is “important”.
- LAN-to-LAN** Allow Local LAN PC communication to be monitored by SmartMonitor if such data is forwarded by monitor port.
- Delete** Delete this selected IP.

3. Type in username separately by mapping with each IP address.
4. Choose the group that such IP address would be combined.
5. Click Save to save the configuration.

In some cases, some servers might not send out information automatically, so they will be not listed. For this, please add the users (s) manually.

To manually add the user, please follow the steps listed below to create a new one.

1. Open **User Settings>>User List**.
2. Click the **New User**  icon. The following screen will appear.

New User

User Name

IP

Group

Recording

Emphasize

LAN to LAN

- Type a name (e.g., carrie-pc) for the user in the field of User Name. Specify the IP address of the new user. Choose one of the groups from Group drop-down list.
- Click **Save**.

Below shows a figure of new user added (displayed on User List page).

User List

15 pcs/2 Pages

Sort By IP

No.	<input type="checkbox"/> Recording	IP	User Name	Group	<input type="checkbox"/> Emphasize	<input type="checkbox"/> LAN-to-LAN	Delete
1	<input checked="" type="checkbox"/>	192.168.1.53*	<input type="text" value="carrie-pc"/>	Others	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	<input checked="" type="checkbox"/>	192.168.1.1	<input type="text"/>	Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	<input checked="" type="checkbox"/>	192.168.2.1	<input type="text"/>	Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	<input checked="" type="checkbox"/>	192.168.3.1	<input type="text"/>	Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	<input checked="" type="checkbox"/>	192.168.1.5	<input type="text"/>	Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	<input checked="" type="checkbox"/>	1.1.1.10	<input type="text"/>	Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	<input checked="" type="checkbox"/>	192.168.1.10	<input type="text"/>	Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	<input checked="" type="checkbox"/>	192.168.2.10	<input type="text"/>	Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	<input checked="" type="checkbox"/>	192.168.3.10	<input type="text"/>	Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/>	192.168.10.10	<input type="text"/>	Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>


Note:

- In User List page, it will be convenient for management by setting a user name for every IP address
- You can group the users for monitoring the configuration and easily managing. For the detailed of group, it will be introduced in later sections.

2.6 Create/Modify Admin Account

It is not safe to use the default user name and password. It is strongly suggested to modify user name and password after registering SmartMonitor. Additionally, an admin account can only login one PC at a time. Therefore, please create different accounts and passwords for different administrators.

Please follow the steps listed below to create a new one. Such account will be used for accessing into SmartMonitor next time.

1. Click the **Admin** link from the **Create your Admin Account** located in Quick Start area or open **System>>Admin**.
2. Click the New Admin  icon. The following screen will appear.

New Admin


Admin Name	<input type="text" value="carrie"/>
Password	<input type="password" value="••••••••"/>
Comfirm Password	<input type="password" value="••••••••"/>
E-Mail	<input type="text" value="carrie_ni@draytek.com"/>
Language	English <input type="button" value="v"/>
Privilege	Normal User <input type="button" value="v"/>
] View Access: FTP MAIL HTTP IM TELNET P2P WEBDOWN STOCK	
] Delete Access: FTP MAIL HTTP IM TELNET P2P WEBDOWN STOCK	
] DB Operation: Disable	

3. Type a name (e.g., carrie) as the Admin Name and type the password in the corresponding field. Next, type the password again in confirm Password.
4. Type the E-Mail address in E-Mail field. Such address will be used to receive the alert messages, reports files sent from SmartMonitor.
5. Language field is very important for it determines the language system display for SmartMonitor when administrators log in.
6. Determine the privilege from the drop-down list. **Privilege** field allows you to choose the type of administrator. There are four types of privilege. The authority of the administrator can be defined in **System>>Privilege**.
7. Click **Save**.

Below shows a figure of new user added.

Admin 

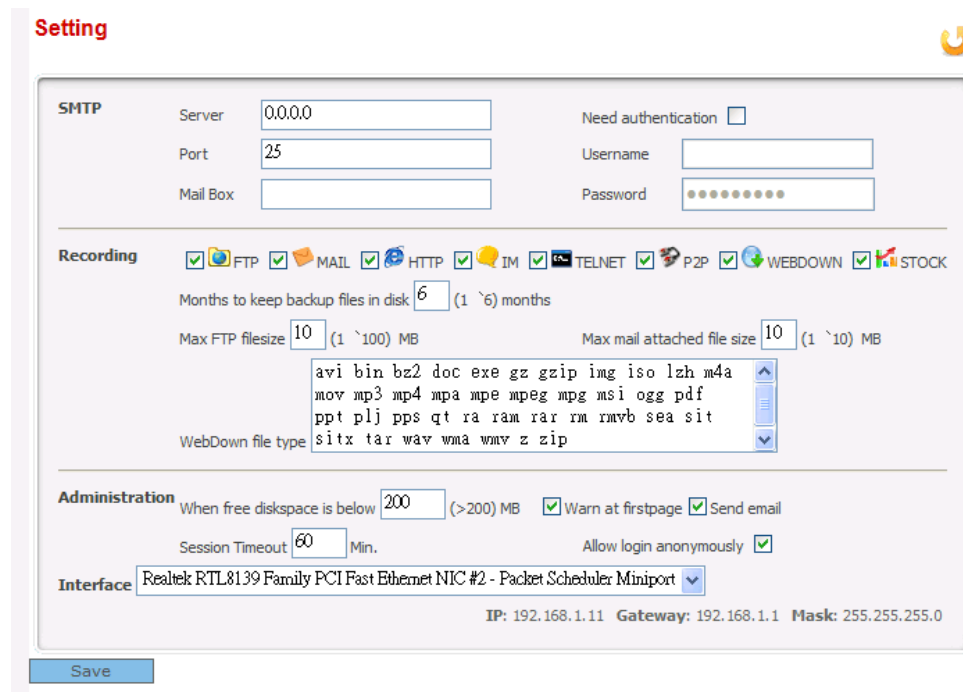
Admin Name	E-Mail	Language	Privilege	Delete
admin		English	Administrator	
carrie	carrie_ni@draytek.com	English	Normal User	

The way to modify the password is the same as the above steps. However, it is not necessary to click New Admin  icon but click **Admin Name**, then modify the password field and save it.

2.7 Adjust System Settings

Please follow the steps listed below to modify current system settings for SmartMonitor. The default settings will be shown on such page. You can change settings for SMTP, modify the recording type, or adjust the disk space and session timeout, etc.

1. Click the **Setting** link from the **Modify General Setting** located in Quick Start area or open **System >>Setting**.



Setting

SMTP

Server: 0.0.0.0 Need authentication:

Port: 25 Username:

Mail Box: Password:

Recording

FTP MAIL HTTP IM TELNET P2P WEBDOWN STOCK

Months to keep backup files in disk: 6 (1 `6) months

Max FTP filesize: 10 (1 `100) MB Max mail attached file size: 10 (1 `10) MB

WebDown file type: avi bin bz2 doc exe gz gzip img iso lzh m4a
mov mp3 mp4 mpa mpe mpeg mpg msi ogg pdf
ppt plj pps qt ra ram rar rm rmvb sea sit
sitx tar wav wma wmv z zip

Administration

When free disk space is below: 200 (>200) MB Warn at firstpage Send email

Session Timeout: 60 Min. Allow login anonymously:

Interface: Realtek RTL8139 Family PCI Fast Ethernet NIC #2 - Packet Scheduler Miniport

IP: 192.168.1.11 Gateway: 192.168.1.1 Mask: 255.255.255.0

Save

2. Modify the ones you want.
3. Click **Save**.

Notice: It's very important to choose right **Interface** for SmartMonitor, especially a PC has more than one ethernet/wireless card.

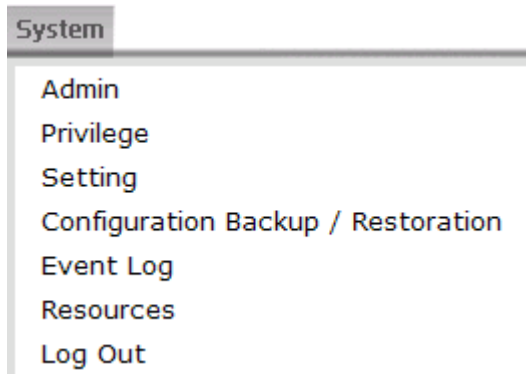
3

Advanced Operation

This chapter introduces all the functions and configurations in SmartMonitor in detailed.

3.1 System

Such menu allows you to set password/name for logging into SmartMonitor, set privilege for having different authorities, backup or restoring the configuration, set event log, and etc.



3.1.1 Admin

The name and password configured here will be utilized while logging into SmartMonitor every time. In addition, it allows you to set different privilege for different administrator account. The admin account can view records and delete records according to the privilege configured.

Admin




Admin Name	E-Mail	Language	Privilege	Delete
admin		English	Administrator	

- Admin:** Display the name for administration.
- E-Mail:** Display the e-mail address for such account.
- Language:** Display the language for data recorded.
- Privilege:** Display the privilege for such account.
- Delete:** Allow to remove such account. In general, the name “admin” is the default setting and cannot be removed.

Note: The privilege of the administrator can be modified in System>>Privilege.

Add a New Admin

Click the New Admin  icon. The following screen will appear.

New Admin

Admin Name

Password

Confirm Password

E-Mail

Language

Privilege

] **View Access:** FTP MAIL HTTP IM TELNET P2P WEBDOWN STOCK

] **Delete Access:** FTP MAIL HTTP IM TELNET P2P WEBDOWN STOCK

] **DB Operation:** Disable

- Admin Name:** Type the name for the new administrator.
- Password:** Type the password for the new administrator.
- Confirm Password:** Type the new password again to make a confirmation.
- E-Mail:** Type an e-mail address in such field. All the records will be sent to the address specified here for reference.
- Language:** At present, there are only Simply Chinese and English offered. Choose any one of them for recording the monitored results.

Language

- Simple Chinese
- English

- Privilege:** Please assign the privilege for the new admin account. There are three privilege provided by SmartMonitor and each account will have different monitoring effect based on the privilege specified here.

Privilege

- Administrator
- Super User
- Normal User
- guest

Below shows an example:

Admin



Admin Name	E-Mail	Language	Privilege	Delete
admin		English	Administrator	
carrie	carrie_ni@draytek.com	English	Normal User	✘
david	david@hotmail.com	Simple Chinese	guest	✘

In the above example, “admin” owns the highest privilege – Administrator. That means the one accessing into SmartMonitor with such name can view and delete all of the records for different user accounts that controlled and monitored by SmartMonitor. “Admin” is the default setting and cannot be deleted.

3.1.2 Privilege

There are eight services can be monitored under SmartMonitor. However, administrators with different privileges will have different authority to view, delete the records or make DB operation. There are three types of privilege, Administrator, Super User and Normal User provided here for you to specify for different purposes.

Privilege



Type	Description	View Access	Delete Access	Members	Delete
Administrator		FTP, MAIL, HTTP, IM, TELNET, P2P, WEBDOWN, STOCK	FTP, MAIL, HTTP, IM, TELNET, P2P, WEBDOWN, STOCK	1	✘
Super User		FTP, HTTP, TELNET, P2P, WEBDOWN, STOCK	FTP, HTTP, TELNET, P2P, WEBDOWN, STOCK	0	✘
Normal User		FTP, HTTP, TELNET, P2P, WEBDOWN, STOCK	FTP, HTTP, TELNET, P2P, WEBDOWN, STOCK	1	✘

Add a New Privilege Type



Click the New Privilege Type icon. The following screen will appear.

New Privilege Type

Type:

Description:

View Access: FTP MAIL HTTP IM TELNET P2P WEBDOWN STOCK

Delete Access: FTP MAIL HTTP IM TELNET P2P WEBDOWN STOCK

Type: Type the name for the new privilege type.

Description: Type the brief introduction for such privilege.

View Access: Check the service(s) that allows to be inspected by the admin account.

Delete Access: Check the service(s) that allows to be deleted by the admin account.

Save: Save the settings for such type.

Below shows a figure of new Privilege Type added.

Privilege



Type	Description	View Access	Delete Access	Members	Delete
Administrator		FTP, MAIL, HTTP, IM, TELNET, P2P, WEBDOWN, STOCK	FTP, MAIL, HTTP, IM, TELNET, P2P, WEBDOWN, STOCK	1	
Super User		FTP, HTTP, TELNET, P2P, WEBDOWN, STOCK	FTP, HTTP, TELNET, P2P, WEBDOWN, STOCK	0	
Normal User		FTP, HTTP, TELNET, P2P, WEBDOWN, STOCK	FTP, HTTP, TELNET, P2P, WEBDOWN, STOCK	1	
viewonly	view all records	FTP, MAIL, HTTP, IM, TELNET, P2P, WEBDOWN, STOCK	FTP, MAIL, HTTP, IM, TELNET, P2P, WEBDOWN, STOCK	0	

Modify the Existing Privilege Type

You can change the description of the privilege, change the members under the privilege, change the items for viewing, deleting under the privilege by double clicking the name link under type filed.

Modify Privilege

viewonly

Description

FTP
 MAIL
 HTTP
 IM
 TELNET
 P2P
 WEBDOWN
 STOCK

View Access

Delete Access

Members (0)

Description: To change the description for the selected privilege type, simply retype new description here.

View Access: Check the one(s) and uncheck the one(s) you desire for viewing records under the selected privilege type. Only the records of the items checked here can be inspected next time when you access into SmartMonitor by using the admin account with such privilege.

Delete Access: Check the one(s) and uncheck the one(s) you desire for deleting records under the selected privilege type. Only the records of the items checked here can be deleted next time when you access into SmartMonitor by using the admin account with such privilege.

Members: Display the admin accounts which selected such privilege.

Save: Save the modification for such privilege.

3.1.3 Setting

Setting

SMTP

Server: 0.0.0.0 Need authentication:

Port: 25 Username:

Mail Box: Password:

Recording

FTP MAIL HTTP IM TELNET P2P WEBDOWN STOCK

Months to keep backup files in disk: 6 (1*6) months

Max FTP filesize: 10 (1*100) MB Max mail attached file size: 10 (1*10) MB

WebDown file type: avi bin bz2 doc exe gz gzip img iso lzh m4a
mov mp3 mp4 mpa mpe mpeg mpg msi ogg pdf ppt
plj pps qt ra ram rar rm rmvb sea sit sitx
tar wav wma wmv z zip

Administration

When free disk space is below: 200 (>200) MB Warn at firstpage Send email

Session Timeout: 60 Min. Allow login anonymously:

Interface: Realtek RTL8139/810x Family Fast Ethernet NIC #2 - Packet Scheduler Miniport

IP: 192.168.1.11 Gateway: 192.168.1.1 Mask: 255.255.255.0

Save



Click such icon to restore the factory default settings.

SMTP:

Server – Type the IP address for the SMTP server, e.g., 172.16.3.9.

Need authentication – If you check this box, you have to enter Username and Password specified here to access into the SMTP server next time.

Port – Type the port number of the specified SMTP server above.

Username – Type the username for accessing into the above SMTP server. It will be active only when **Need authentication** box is selected.

Mailbox – Type the e-mail address for the SMTP Server.

Password - Type the password for accessing into the above SMTP server. It will be active only when **Need authentication** box is selected.

Recording:

You can check or uncheck these six services respectively to be used and recorded by SmartMonitor.

Month to keep backup files in disk – Specify the recording period for the services. The available number is from 0 to 9. In the above example, it means the recording job will be deleted automatically after six months.

Max FTP filesize – The maximum file size for downloading from or uploading on FTP web site can be restricted in this box.

Max mail attached file size – The maximum file size for mail attached file can be restricted in this box.

Administration:

When free disk space below – A warning message will be shown on the firstpage of SmartMonitor and/or be sent to the dedicated e-mail address from SmartMonitor when the free disk space is lower than the number specified here.

Session Timeout – SmartMonitor will be terminated automatically

based on the value configured here.

Allow login anonymously – If you check this box, anyone can access into SmartMonitor through **Anonymous Login** for viewing the records easily.



DrayTek

Copyright(c) 2007, DrayTek Corp. All Rights Reserved.

The homepage of SmartMonitor will be shown as the following. Only System and User Analysis menus can be operated by the user.



Interface: Use the drop down list to choose the interface for SmartMonitor.

Save: Save the settings.

3.1.4 Configuration Backup/Restoration

You can save current configurations as a file. Later, you can upload the file to your PC.

Configuration Backup / Restoration

Restoration

Select a configuration file.

Click Restore to upload the file.

Backup

Click Backup to download current running configurations as a file.

3.1.5 Event Log

This page displays administrator's operation records of SmartMonitor.

Event Log



1 6 pcs/1 Pages Latest 20 days 2008-09-26(Fri)

Log Time	Admin Name	Log IP	Level	Message
<input type="checkbox"/> 2008-09-26 08:46:42	admin	127.0.0.1	Configuration Backup / Restoration	[DB Backup] config: Structure, 19 record(s). interface: Structure, 3 record(s). manager: Structure, 3 record(s). network: Structure, 2 record(s). privilege: Structure, 5 record(s). user: Structure, 15 record(s).
<input type="checkbox"/> 2008-09-26 08:42:41	admin	127.0.0.1	Privilege	[ADD] viewonly
<input type="checkbox"/> 2008-09-26 08:37:50	admin	127.0.0.1	Group/Department	[ADD] office-1
<input type="checkbox"/> 2008-09-26 08:34:15	admin	127.0.0.1	Admin	[ADD] carrie
<input type="checkbox"/> 2008-09-26 08:31:23	admin	127.0.0.1	User List	[ADD] 192.168.1.53: UserName=carrie-pc
<input type="checkbox"/> 2008-09-26 08:27:24	admin	127.0.0.1	System	[LogIn] Success

- Log Time:** Display the login time for the user or the administrator.
- Admin Name:** Display the privilege of the user or the administrator.
- LogIP:** Display the IP address of the user or the administrator.
- Level:** Display the menu item of the user or the administrator.
- Message:** Display brief description of the action executed by the user or the administrator.

Additionally, there are several icons provided for you to search specified file(s), view the traffic, refresh current page, delete selected record, delete all record, mail all record to specified mail box and print current page.

Open Search Mode	Traffic Report	Refresh	Delete Selected Record	Delete All Record	Send the report to your e-mail	Print this Page

Searching Record

By clicking Open Search icon, you will get the following page.

Event Log


Admin Name Log IP Message

Level From 2008-09-26 To 2008-09-26

1 6 pcs/1 Pages Latest 20 days Search Mode

Log Time	Admin Name	Log IP	Level	Message
<input type="checkbox"/> 2008-09-26 08:46:42	admin	127.0.0.1	Configuration Backup / Restoration	[DB Backup] config: Structure, 19 record(s). interface: Structure, 3 record(s). manager: Structure, 3 record(s). network: Structure, 2 record(s). privilege: Structure, 5 record(s). user: Structure, 15 record(s).

Admin Name: Choose the name for searching the records under it.

Admin Name 


Any

admin

LogIP Type the IP address for searching the records under it.

Message Type the message for searching the records with it.

Level Choose the level for searching the records based on it.

Level 

Any

User List

Configuration Backup / Restoration

System

Privilege

Group/Department

Admin

From....To... Specify the date for the downloading or uploading files you want to search.


Search Click this button to execute searching job and display on this page.

3.1.6 Resources

Such page displays current system resources information about listening IP, kernel version, processor model, CPU speed, BUS speed, Cache size, total memory, memory usage and mounted file systems and etc. If there is something wrong, such as insufficient disk space, the administrator can know it and process it immediately.

Resources

System Vital

Canonical Hostname fae-122
 Listening IP 172.16.2.197
 Kernel Version 5.1.2600 SP2
 Distro Name  Microsoft Windows XP Home Edition
 Uptime 1 days 14 hours 44 minutes

Hardware Information

Processors 1
 Model Intel(R) Celeron(R) CPU 2.80GHz
 CPU Speed 2.8 GHz
 BUS Speed 133 Mhz
 Cache Size 0.00 KB

Memory Usage

Type	Percent Capacity	Free	Used	Size
Physical Memory	<div style="width: 88%;"><div style="width: 88%;"></div></div> 88%	63.38 MB	448.11 MB	511.48 MB
Disk Swap	<div style="width: 67%;"><div style="width: 67%;"></div></div> 67%	261.00 MB	507.00 MB	768.00 MB

Mounted Filesystems

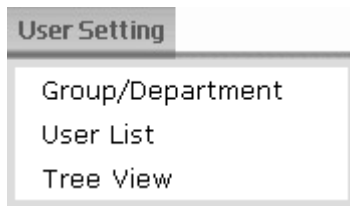
Mount	Type	Partition	Percent Capacity	Free	Used	Size
C:	NTFS	Local Disk	<div style="width: 11%;"><div style="width: 11%;"></div></div> 11%	52.16 GB	6.43 GB	58.59 GB
D:	NTFS	Local Disk	<div style="width: 26%;"><div style="width: 26%;"></div></div> 26%	28.56 GB	9.54 GB	38.10 GB
E:	NTFS	Local Disk	<div style="width: 22%;"><div style="width: 22%;"></div></div> 22%	74.07 GB	20.72 GB	94.78 GB
F:	FAT32	Local Disk	<div style="width: 5%;"><div style="width: 5%;"></div></div> 5%	34.61 GB	1.81 GB	36.42 GB
G:		Compact Disc	<div style="width: 0%;"><div style="width: 0%;"></div></div> 0%	0.00 KB	0.00 KB	0.00 KB
Totals :			<div style="width: 17%;"><div style="width: 17%;"></div></div> 17%	189.40 GB	38.49 GB	227.90 GB

3.1.7 Log Out

Choose this menu item can quit SmartMonitor.

3.2 User Setting

User Setting allows you to create new group/department and users for monitored by SmartMonitor. In addition, it also offers tree view for all the accounts to be checked in ease.



3.2.1 Group/Department

This page can display current created group/department. It allows you to create new groups, modify existing group, and change the members to be controlled under the specified group.


Group/Department



Group Name	Description	Active	Emphasize	Members	Delete
------------	-------------	--------	-----------	---------	--------

- Group Name:** Display the name of the group/department for current user.
- Description:** Display the explanation for the group.
- Active:** Display the status for current group, **Y(active)** or **N (inactive)**.
- Emphasize:** IP/name followed by red mark "*" can assist the administrator to find out the ones being monitored specially and quickly within lots of records.
- Members:** Display the number of the members included in such group.
- Delete:** Remove the selected group.

Add a New Group/Department

Click the New  icon. The following screen will appear.

New Group/Department

Group Name: office-1

Description: for marketing

Active:

Emphasize:

Recording

- FTP
- SMTP POP3 WEB SMTP
- HTTP
- MSN ICQ YMSG
- TELNET
- P2P

[Add new Members](#)

Save Cancel

Group Name: Type the name for the group (maximum 36 characters).

- Description:** Make a simple explanation for such group.
- Active:** Check the box to monitor such group.
- Emphasize:** Check the box to make it as important group to be monitored (an sign * will be added to corresponding record).
- Recording:** There are ten services provided by SmartMonitor. Check the one(s) that you want to record for such group.
- Add New Members:** Click such link to add existed members into such group. If you did not create any users beforehand, you would get nothing after clicking the link. Please add new members first.

Save: Click this button to save the settings for such group.

Below shows a figure of new group added.

Group/Department



Group Name	Description	Active	Emphasize	Members	Delete
office-1	for marketing	Y	N	0	
Others	Default Group/Department	Y	N	15	

3.2.2 User List

User List

Sort By: IP


No.	<input type="checkbox"/> Recording	IP	User Name	Group	<input type="checkbox"/> Emphasize	<input type="checkbox"/> LAN-to-LAN	Delete
1	<input checked="" type="checkbox"/>	192.168.1.53	carrie-pc	office-1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	<input checked="" type="checkbox"/>	192.168.1.1		Others	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Save

1
 1.LAN-TO-LAN is used when source and destination IP are in same subnet. For example, accessing internal mail server is typical LAN-TO-LAN application.
 2.Ticking LAN-TO-LAN option only means SmartMonitor handle LAN data which CAN be received, which does not guarantee SmartMonitor can get all LAN traffic. Because LAN switch mostly forward LAN data directly without sending it to Vigor monitor port.
 3.In some specific environment, monitor port can capture LAN-to-LAN traffic. For example, PC connect to Vigor LAN P1 access PC2 in P2.

- No:** Display the item number of the user.
- Recording:** Check this box to record data of that user.
- IP:** Display the IP address for the user.
- User Name:** Display the name of the user. You can change the name if you want.
- Group:** Display the group that the user belongs to. You can change the group by using the drop-down list.
- Emphasize:** It can assist the administrator to find out such user list in a short time. If you check this box, a "*" mark will be appended on IP address/Username of that user for identification.
- LAN to LAN:** Check this box to assist other users on the same subnet to find out this user and share information for each other easily. However, it is useful only for the users transferring data via this router.
- Delete:** Remove the selected user.

Add a New User

Click the New User  icon. The following screen will appear.

New User

User Name: carrie-pc

IP: 192.168.1.53

Group: others

Recording:

Emphasize:

LAN to LAN:

Save Cancel

- User Name:** Type the name for the user.
- IP:** Type the IP address for such user.
- Group:** Choose the group that you want such user belonging to. You can define different groups (e.g., office-1) in **User Settings>>Group/Department**.

- Recording:** Check this box to record the network service of this user.
- Emphasize:** Check this box to make a sign “*” for that IP address/user name. It means that the user is monitored specially and it is convenient for the administrator to locate that one in lots of records.
- LAN to LAN:** Check this box to make SmartMonitor recording the communication of interior network when the data passing through. If not check, SmartMonitor will just catch the data between interior and exterior networks.

Below shows a figure of new user added.

User List

3 pcs/1 Pages

No.	Recording	IP	User Name	Group	Emphasize	LAN to LAN	Delete
1	<input checked="" type="checkbox"/>	192.168.1.53*	canie-pc	office-1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	<input checked="" type="checkbox"/>	192.168.1.10	Mo	office-1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	<input checked="" type="checkbox"/>	192.168.1.12	Server	office-1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Save

Note: After configuring user name, any data or record of that one will be displayed with username directly for people to check conveniently.

3.2.3 Tree View

Such page shows the group/department with users with tree view structure.

Tree View

Group/Department

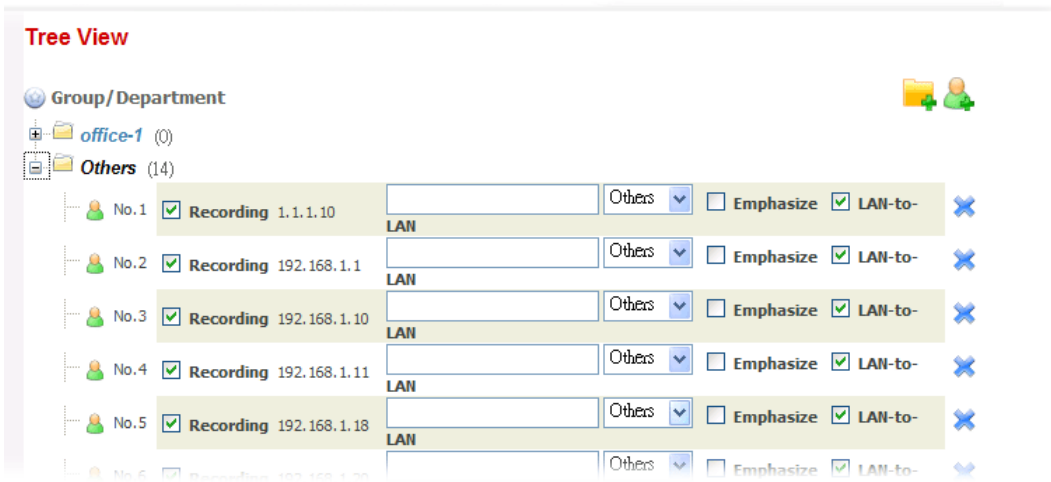
- office-1 (1)
- Others (14)



Save

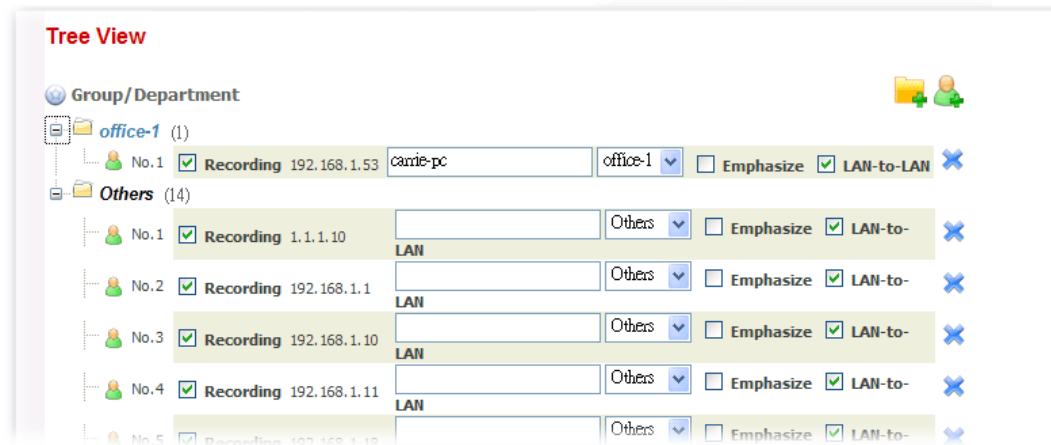
i

- 1.LAN-TO-LAN is used when source and destination IP are in same subnet. For example, accessing internal mail server is typical LAN-TO-LAN application.
- 2.Ticking LAN-TO-LAN option only means SmartMonitor handle LAN data which CAN be received, which does not guarantee SmartMonitor can get all LAN traffic. Because LAN switch mostly forward LAN data directly without sending it to Vigor monitor port.
- 3.In some specific environment, monitor port can capture LAN-to-LAN traffic. For example, PC connect to Vigor LAN P1 access PC2 in P2.

Below shows the expanded tree view:

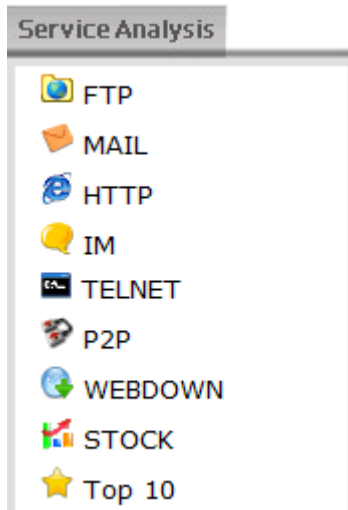


If you want to add new group/department with different users, simply click the New  icon to add a new group/department and click the New User  icon to add a new user. The result will be displayed on Tree View immediately.



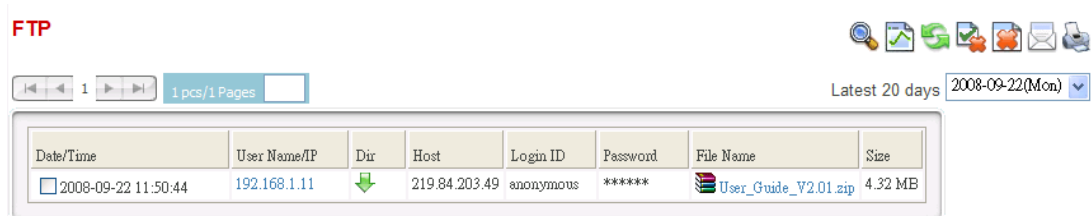
3.3 Service Analysis

This menu makes an analysis for the services such as FTP, MAIL, HTTP, IM, TELNET, P2P utilized by monitored users. Also, it will show the top 10 services that users like to use. With such analysis, the administrator can easily understand what kind of service is used frequently.



3.3.1 FTP

From this page, users can download files stored in FTP site.





- Date/Time:** Display the date and time of the job of file uploading or downloading.
- UserName/IP:** Display the name of the user who upload or download the file.
- Dir:** Display the direction for file download or file upload.
- Host:** Display the IP address of host location.
- Login ID:** Display the ID name of current user account.
- Password:** Display the password set for current user account.
- File Name:** Display the name of the file in FTP site.
- Size:** Display the file size.
- Latest 20 days** Such table can display daily traffic report. In addition, you can choose any day by using the drop-down list for viewing the monitoring report of other day.

Additionally, there are several icons provided for you to search specified file(s), view the traffic, refresh current page, delete selected record, delete all record, mail all record to specified mail box and print current page.

Open Search Mode	Traffic Report	Refresh	Delete Selected Record	Delete All Record	Send the report to your e-mail	Print this Page

Searching Record



By clicking  Open Search icon, you will get the following page.

FTP 

User File Host Dir

Size From To

Latest 20 days

Date/Time	User Name/IP	Dir	Host	Login ID	Password	File Name	Size
<input type="checkbox"/> 2008-09-22 11:50:44	192.168.1.11		219.84.203.49	anonymous	*****	 User_Guide_V2.01.zip	4.32 MB

User: Type the name of the user that you want to search.

File: Type the file name that you want to search.

Host: Type the IP address of the host that you want to search.

Dir: Choose the direction (uploading file or download file) for the file that you want to search.

-
-
-

Size: Specify the file size of the file(s) that you want to search.


-
-
-

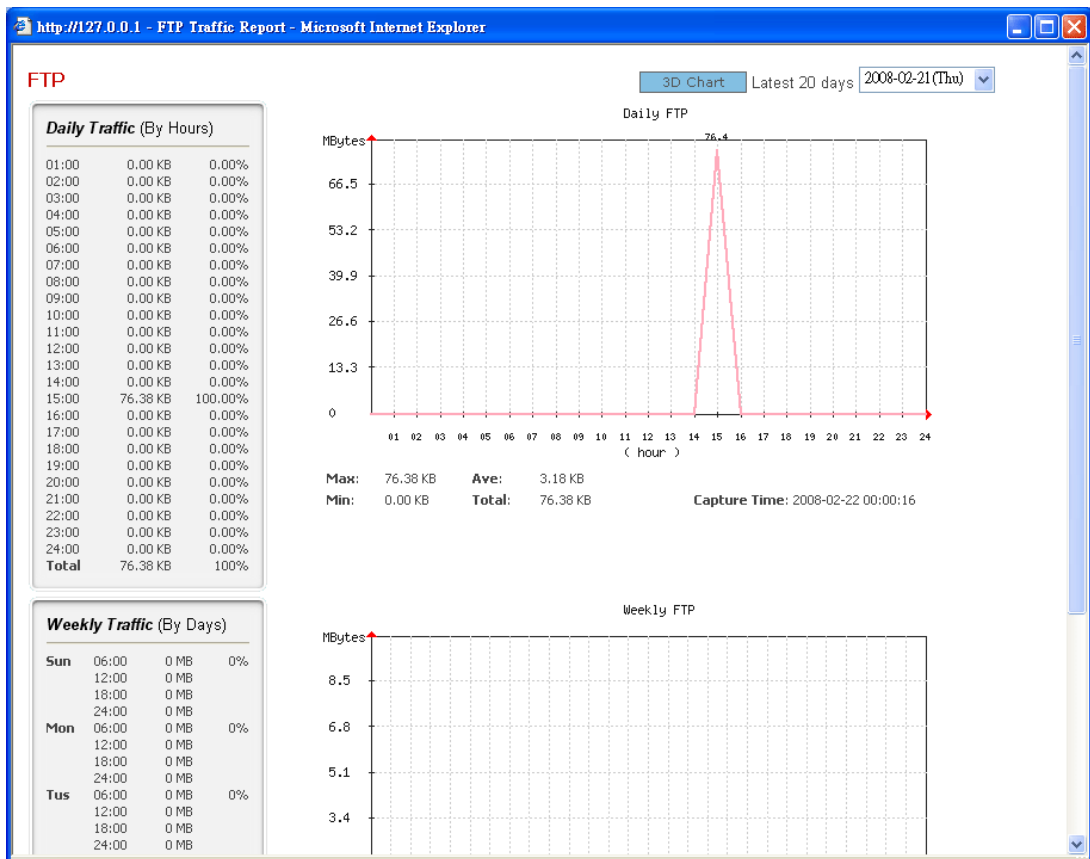
From: Specify the date for the downloading or uploading files you want to search.

Search: Click this button to execute searching job and display on this page.

Viewing Record

For FTP application, the system allows you to view utilization displayed with graphic. From the pop-up window, you can clearly inspect daily traffic and weekly traffic of such


application used by all of the monitored accounts. Simply click  Traffic Report icon, the following dialog will appear.




Refreshing Current Page

To refresh current page, simply click  Refresh and the record will be refreshed.


Deleting Selected Record

To delete one record, please choose that one you want to delete by checking the box. Then, click  Delete Selected Record, the records of selected item(s) will be deleted automatically.


Deleting All Record

To delete all of the records displayed on current page, click  Delete All Record. All the records listed in this page will be deleted completely.

Mailing All Record

You may want to mail the records to somewhere. Simply click  Mail All Record, all the records can be sent to the specified e-mail box for users to inspect conveniently.

Printing Current Page

To have a hard copy of the records, please click  . Current page will be printed.

3.3.2 MAIL

Such page displays detailed information (including user name, mail sender, mail recipient and subject of each mail) for all of the mails that belong to different users and monitored by SmartMonitor. The administrator can access into the mail box to read or view the content of that user easily. However, the administrator cannot change the content of the mail and cannot response to that sender or recipient through such record directly.

Date/Time	User Name/IP	Sender	Recipient	Subject	Size
<input type="checkbox"/> 2008-02-15 19:15:59	Mo	vincent_wu@draytek.com	rd2@draytek.com.tw	Weekly report from Vincent Wu (2/11-2/15).	0.77 KB
<input type="checkbox"/> 2008-02-15 19:15:59	Mo	rex_cheng@draytek.com	rd2@draytek.com	Weekly report from Rex Cheng (02/11-02/15).	1.32 KB
<input type="checkbox"/> 2008-02-15 19:15:59	Mo	english_buy_director@yahoo.co.jp	press@draytek.com	=?iso-2022-jp?E?G?yRCJF8kZk1NjGk8aUiUk8bCU5OH100TEWTWokLEZP...	0.73 KB
<input type="checkbox"/> 2008-02-15 19:15:59	Mo	fhsu@draytek.com.tw	rd2@draytek.com	Weekly report (1/11-2/15).	1.47 KB
<input type="checkbox"/> 2008-02-15 19:15:59	Mo	info@draytek.com.tw	info@draytek.com.tw	MIME encoded twice.	0.11 KB +0.01 KB
<input type="checkbox"/> 2008-02-15 19:15:58	Mo	link_tsai@draytek.com	ccwen@draytek.com.tw	weekly report (02/11-02/15).	1.25 KB
<input type="checkbox"/> 2008-02-15 19:15:58	Mo	link_tsai@draytek.com	ccwen@draytek.com.tw	weekly report (02/11-02/15).	1.25 KB
<input type="checkbox"/> 2008-02-15 19:15:58	Mo	albert_hsieh@draytek.com.tw	rd2@draytek.com.tw	weekly report from Albert(2/11-2/15).	0.50 KB
<input type="checkbox"/> 2008-02-15 19:00:22	Mo	mo_chang@draytek.com	absent_wu@draytek.com	Re: 開會一下吧!	0.61 KB
<input type="checkbox"/> 2008-02-15 18:58:36	Mo	mo_chang@draytek.com	jsu@draytek.com	Voljstel_dslam F/W.	0.01 KB +0 KB

Latest 20 days Such table can display all the mail records of that day. In addition, you can choose any day by using the drop-down list for viewing the monitoring report of other day.

If you are interested in one of the mails, you can click the heading of that mail to view the detailed information (including sender, receiver, title, content and attachment) of that one. In which, the attachment can be downloaded easily.

Additionally, there are several icons provided for you to search specified file(s), view the traffic, refresh current page, delete selected record, delete all record, mail all record to specified mail box and print current page.

Open Search Mode	Traffic Report	Refresh	Delete Selected Record	Delete All Record	Send the report to your e-mail	Print this Page








3.3.3 HTTP

Date/Time	User Name/IP	WebSite	URL Number
<input type="checkbox"/> 2008-02-22 11:54:17	Server	tw.msn.com	1

Date/Time: Display the date and time for the users who visits the website.

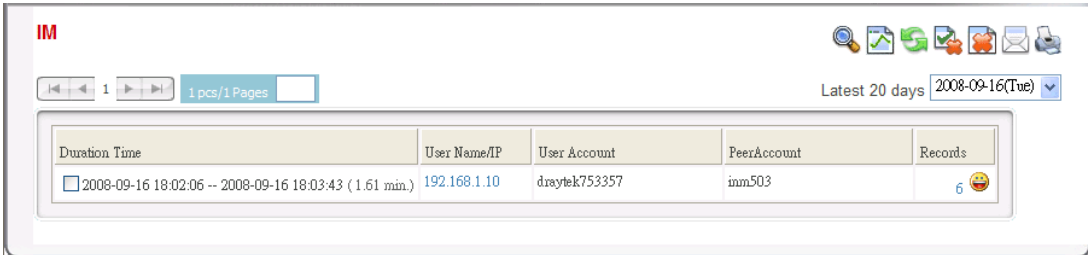
- UserName/IP:** Display the name of the user who uses the HTTP service.
- WebSite:** Display the website that the user visits.
- URL Number:** Display the number of the URL that the user visits.
- Latest 20 days** Such table can display daily traffic report. In addition, you can choose any day by using the drop-down list for viewing the monitoring report of other day.

Additionally, there are several icons provided for you to search specified file(s), view the traffic, refresh current page, delete selected record, delete all record, mail all record to specified mail box and print current page.

						
Open Search Mode	Traffic Report	Refresh	Delete Selected Record	Delete All Record	Send the report to your e-mail	Print this Page

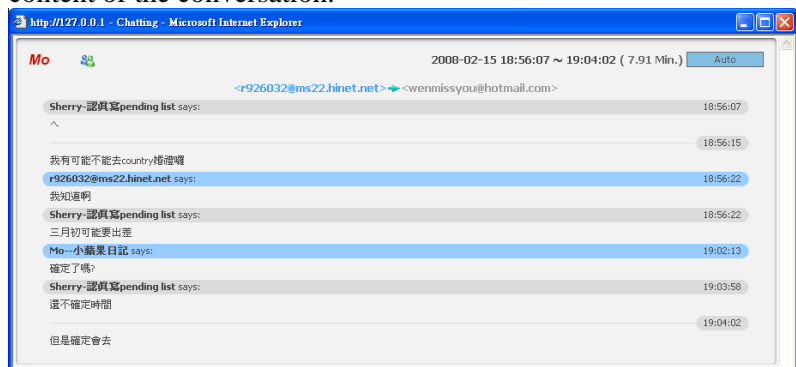
3.3.4 IM

In this page, you can check the IM records. At present, the supported IM software includes MSN Message, Yahoo Messenger, ICQ, QQ and etc.










Duration Time	User Name/IP	User Account	PeerAccount	Records
2008-09-16 18:02:06 -- 2008-09-16 18:03:43 (1.61 min.)	192.168.1.10	draytek753357	imm503	6

- Duration Time:** Display the starting and ending time for this session.
- UserName/IP:** Display the name of the user who uses the IM service.
- User Account:** Display the mail address of the user who uses the IM service.
- PeerAccount:** Display the mail address of the peer that the user contacts.
- Records:** Display the length of the conversation between the user and the peer. Administrator can click the number to view the detailed content of the conversation.




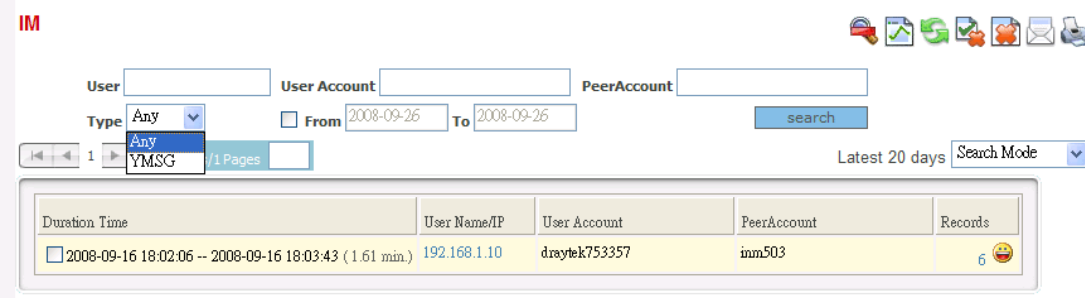
- Latest 20 days** Such table can display daily IM usage report. In addition, you can choose any day by using the drop-down list for viewing the monitoring report of other day.

Additionally, there are several icons provided for you to search specified file(s), view the traffic, refresh current page, delete selected record, delete all record, mail all record to specified mail box and print current page.

						
Open Search Mode	Traffic Report	Refresh	Delete Selected Record	Delete All Record	Send the report to your e-mail	Print this Page

Searching Record

By clicking  Open Search icon, you will get the following page.



Duration Time	User Name/IP	User Account	PeerAccount	Records
2008-09-16 18:02:06 -- 2008-09-16 18:03:43 (1.61 min.)	192.168.1.10	draytek753357	imm503	6

- User:** Type the name of the user that you want to search.
- User Account:** Type the e-mail address of the user that you want to search.
- PeerAccount:** Type the e-mail address of the peer end that you want to search.
- Type:** Choose the type of IM software.
- From:** Specify the period for viewing the IM records between the user and the peer.
- Search:** Click this button to execute searching job and display on this page.

3.3.5 TELNET

Some management of network equipment must be controlled by using Telnet. Additionally, more BBS also must be registered by using Telnet. This page can record all of such information completely for checking at any time.



Start Time	User Name/IP	WebSite	Content
2008-02-26 09:08:37	Server	172.16.3.20	

- Start Time** Display the starting time of TELNET usage.
- UserName/IP:** Display the name of the user who uses the IM service.
- WebSite:** Display the website that the user uses.

Content:

Display the content of TELNET usage.

```

192.168.1.11          92.198.23.226          2008-09-25 16:05:37
|_|z  _|  ^LRed Hat Enterprise Linux AS release 3 (Taroon Update 4)
Kernel 2.4.21-27.EL on an x86_64
login: t10311
Password:
Last login: Mon Feb 25 19:34:58 from 172.16.3.204








Current Genero DVM version ...
-----
fglrun 620.394
Built Jun  6 2005 09:26:03
(c) 1989-2005 Four J's Development Tools
Database interface: ORACLE CALL INTERFACE 9.0.x
Pinging 10.2.153.35 with 64 bytes of Data through WAN1:

```

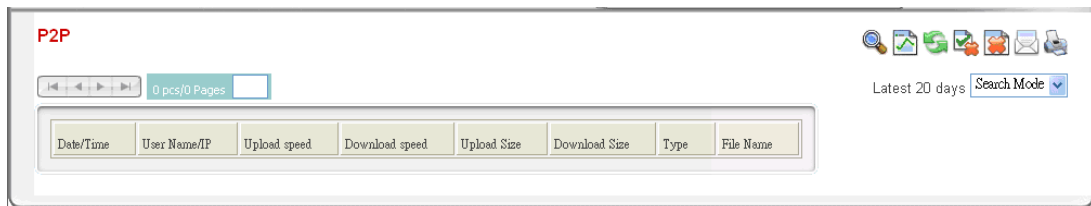
Latest 20 days

Such table can display daily traffic report. In addition, you can choose any day by using the drop-down list for viewing the monitoring report of other day.

Additionally, there are several icons provided for you to search specified file(s), view the traffic, refresh current page, delete selected record, delete all record, mail all record to specified mail box and print current page.








						
Open Search Mode	Traffic Report	Refresh	Delete Selected Record	Delete All Record	Send the report to your e-mail	Print this Page

3.3.6 P2P




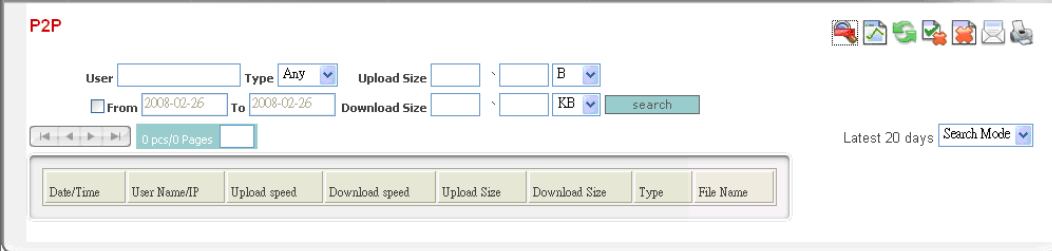
- Date/Time:** Display the starting time of download.
- UserName/IP:** Display the user name and IP address for P2P service.
- Upload speed:** Display the speed of uploading.
- Download speed:** Display the speed of downloading.
- Upload Size:** Display the size of the file uploading.
- Download Size:** Display the size of the file downloading.
- Type:** Display the protocol for such service used.
- File Name:** Display the name of the file to be uploaded or downloaded.
- Latest 20 days** Such table can display daily P2P usage report. In addition, you can choose any day by using the drop-down list for viewing the monitoring report of other day.

Additionally, there are several icons provided for you to search specified file(s), view the traffic, refresh current page, delete selected record, delete all record, mail all record to specified mail box and print current page.

						
Open Search Mode	Traffic Report	Refresh	Delete Selected Record	Delete All Record	Send the report to your e-mail	Print this Page

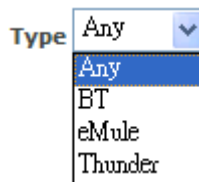
Searching Record

By clicking  Open Search icon, you will get the following page.



User: Type the name of the user that you want to search.

Type: Choose the type that the user that you want to search.



Upload Size: Specify the file size of uploading file that you want to search.

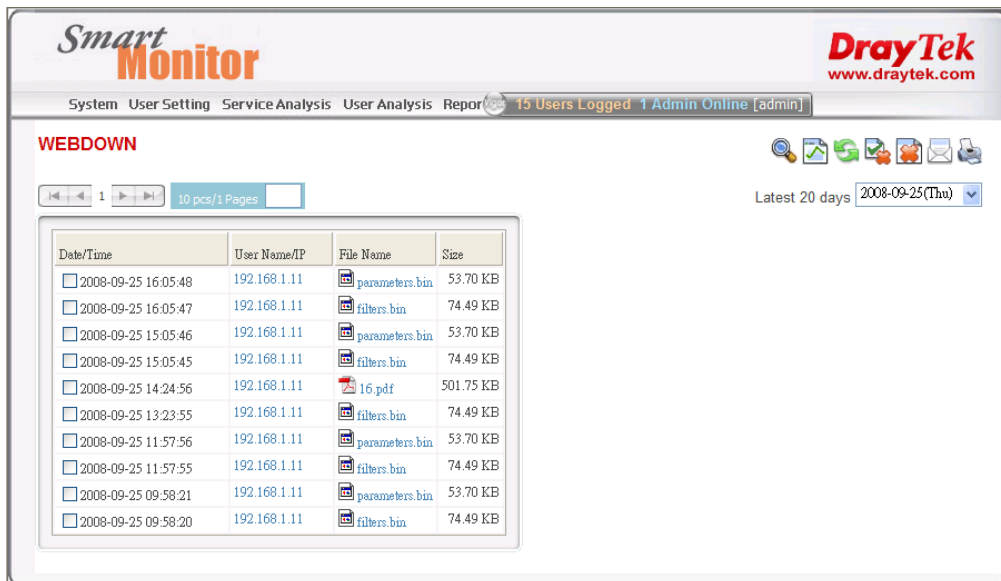
From: Specify the period for viewing the P2P records between the user and the peer sides.

Download Size: Specify the file size of downloading file that you want to search.

Search: Click this button to execute searching job and display on this page.








3.3.7 WEBDOWN

This page displays the file downloading record through HTTP protocol (web browser, I.E, Firefox, etc.)



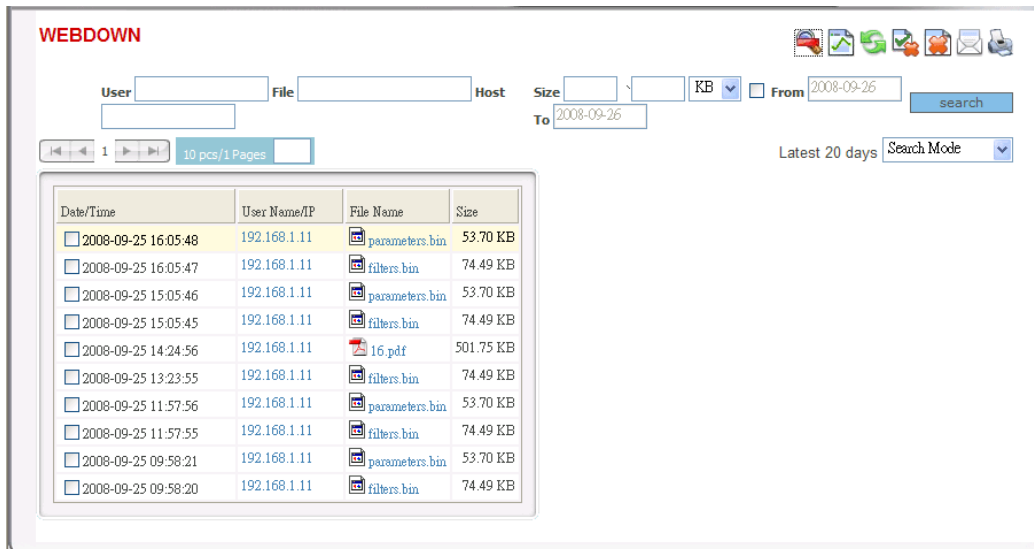
- Date/Time:** Display the time and date that the file downloaded.
- User Name/IP:** Display the user name or IP address that downloads the file.
- File Name:** Display the filename(s) that downloaded from web browser, e.g., I.E.
- Size:** Display the size of the data.

Additionally, there are several icons provided for you to search specified file(s), view the traffic, refresh current page, delete selected record, delete all record, mail all record to specified mail box and print current page.

						
Open Search Mode	Traffic Report	Refresh	Delete Selected Record	Delete All Record	Send the report to your e-mail	Print this Page

Searching Record

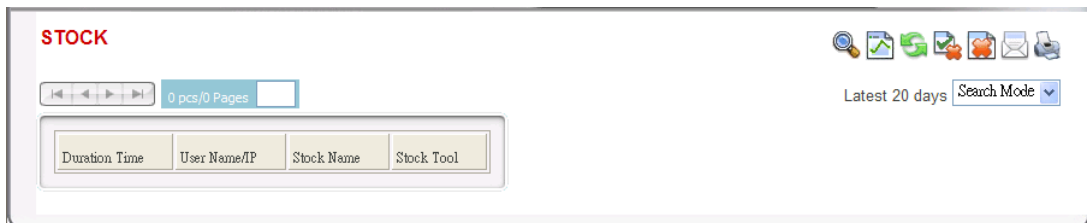
By clicking  Open Search icon, you will get the following page.



- User:** Type the name of the user that you want to search.
- File:** Choose the
- Size:** Specify the file size that you want to search.
- From:** Specify the period for viewing the WEBDOWN records.
- Search:** Click this button to execute searching job and display on this page.

3.3.8 STOCK

This page display information about stock name, IP address/username of the one who review the stocks, what application software used for reviewing stock and the duration time of the stock reviewing.




- Duration Time:** Display the time for the stock.
- User NameIP:** Display the user name/IP address of the one who reviews the stock.
- Stock Name:** Display the name for the stock.
- Stock Tool:** Display the tool that user used to review the stock information.

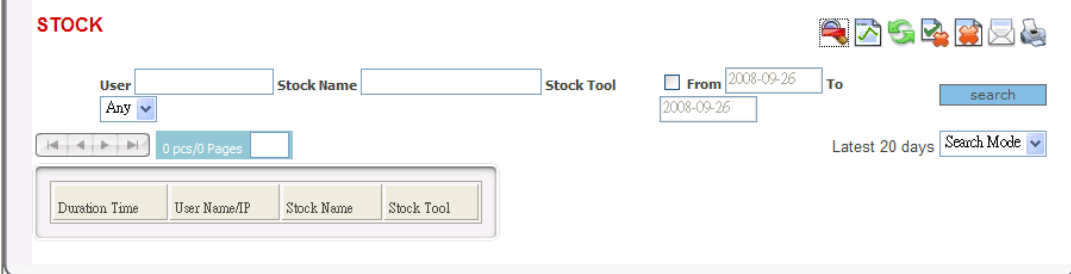
Additionally, there are several icons provided for you to search specified file(s), view the traffic, refresh current page, delete selected record, delete all record, mail all record to specified mail box and print current page.

Open Search Mode	Traffic Report	Refresh	Delete Selected Record	Delete All Record	Send the report to your	Print this Page

					e-mail	
--	--	--	--	--	---------------	--

Searching Record

By clicking  Open Search icon, you will get the following page.



STOCK

User Stock Name Stock Tool From To

Any Latest 20 days

Duration Time	User Name/IP	Stock Name	Stock Tool
---------------	--------------	------------	------------

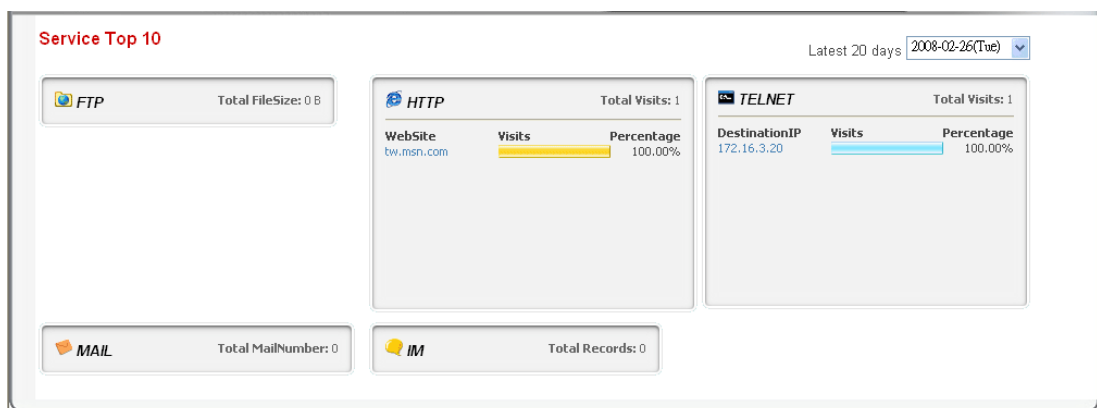
- User:** Type the name of the user that you want to search.
- Stock Name:** Choose the
- Stock Tool:** Choose the tool of the data storage used.
- From:** Specify the period for viewing the STOCK records.
- Search:** Click this button to execute searching job and display on this page.

3.3.9 Top 10

Such page display the top 10 service that users utilize most.

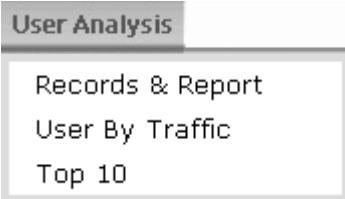
Service Top 10 is used to display the network records under different services that appear frequently, for example, the website which is usually visited, accounts which transfers lots of mails, and so on.

With viewing Service Top 10, it is easy to find out the using custom of the grouping network and then configure proper firewall for the network.



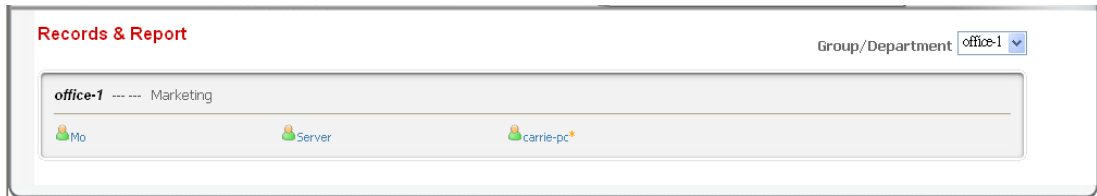
Latest 20 days Such table can display daily traffic report. In addition, you can choose any day by using the drop-down list for viewing the monitoring report of other day.

3.4 User Analysis

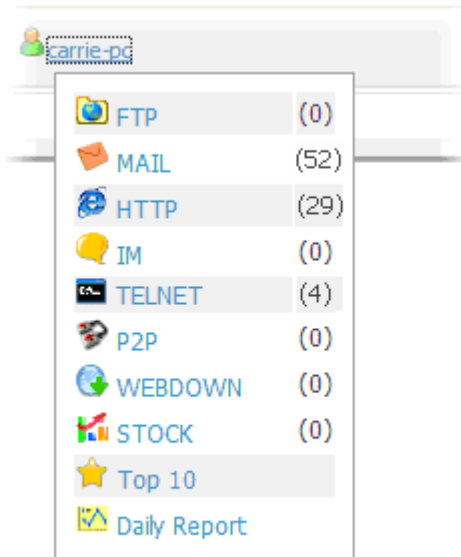


3.4.1 Records & Report

Such page displays records/report for monitored users under different group/department. All the users will be listed below.



You can click the name link to see the detailed analysis. Different services shared by the user will be listed. The number shown after the service indicates that user has accessed that service at that day.



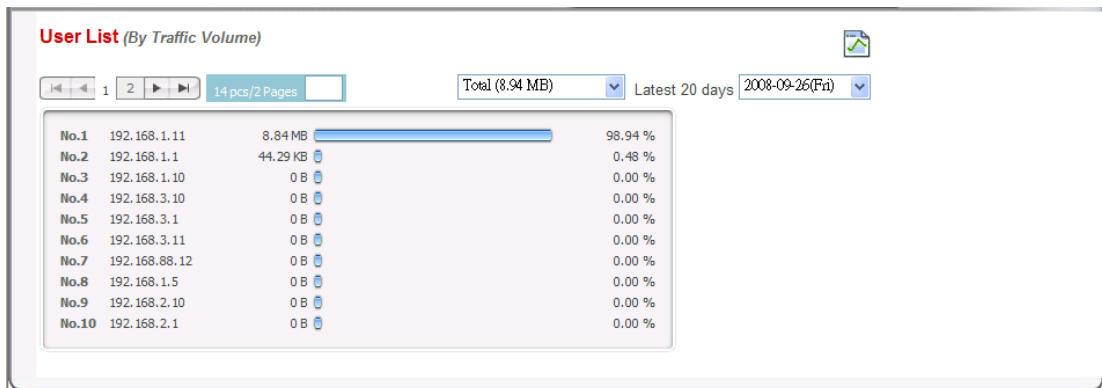
From the above figure we can see there are 52 mails, 29 HTTP records and 4 TELNET records. Click on it to access the viewing page to check the total records of the service that user utilizes within specified time.

<input type="checkbox"/>	2008-04-08 15:46:02	www.google.com 9
<input type="checkbox"/>	2008-04-08 15:41:15	track2.vertical.ifocus.cn 15
<input type="checkbox"/>	2008-04-08 15:41:06	club.pchome.net 65
<input type="checkbox"/>	2008-04-08 14:59:05	sww.draytek.com 14
<input type="checkbox"/>	2008-04-08 14:40:36	218.242.130.18 1
<input type="checkbox"/>	2008-04-08 14:36:19	p.mm.cn.yahoo.com 4
<input type="checkbox"/>	2008-04-08 14:34:46	in.daqi.com 3
<input type="checkbox"/>	2008-04-08 14:34:23	www.fyjs.cn 4
<input type="checkbox"/>	2008-04-08 14:26:29	www.qq.com 9
<input type="checkbox"/>	2008-04-08 14:02:34	172.16.2.215 4

3.4.2 User By Traffic

This page displays the network traffic of each user. If any abnormal usage is found, the administrator can correct it in time.

Moreover, according to the protocol (TCP/UDP/FTP/SMTP.....) used by the user, the administrator can review the ranking of each traffic and find the unreasonable network application in time.



Latest 20 days

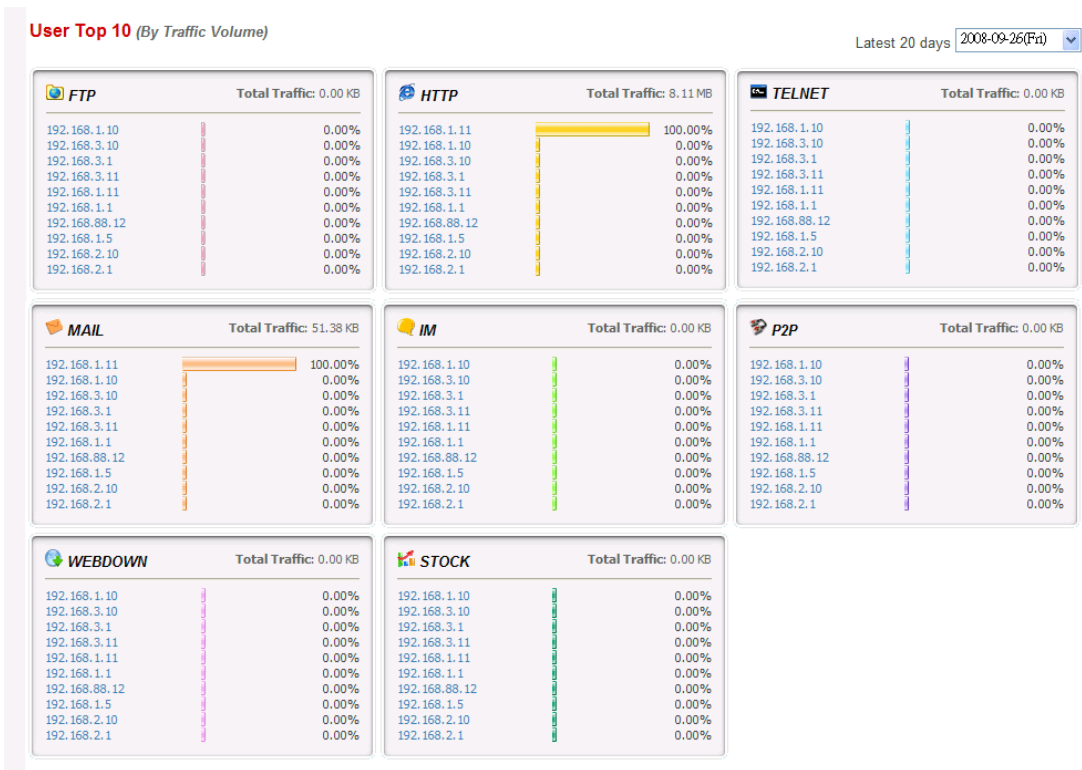
Such table can display daily traffic report. In addition, you can choose any day by using the drop-down list for viewing the monitoring report of other day.

3.4.3 Top 10

This page displays top 10 users who use that service at that day.

This page will list the ranking of network services for users. The administrator can easily find which user/which network service is used frequently. Moreover, with clicking the user name, the service using log of that user can be inspected by the administrator easily.

In addition, such function can be open to anonymous users. Even general users can check and view their network usage ranking and restraint their network behaviors.



Latest 20 days

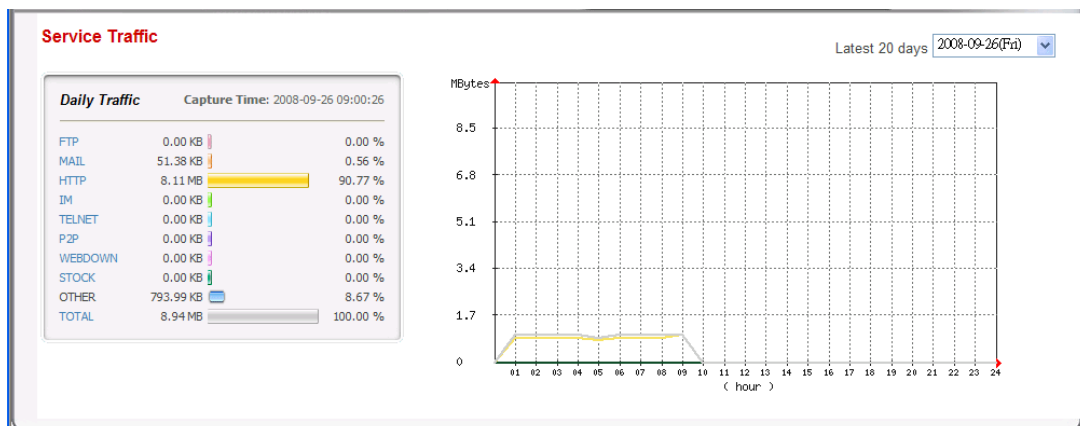
Such table can display daily traffic report. In addition, you can choose any day by using the drop-down list for viewing the monitoring report of other day.

3.5 Report



3.5.1 Service Traffic

Such page displays the percentage for the traffic of each service that users have accessed.

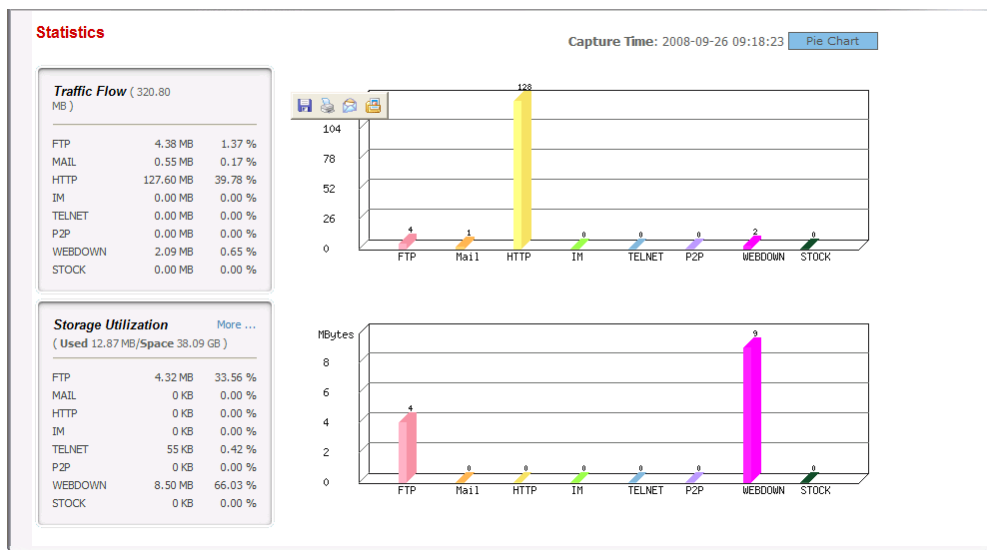
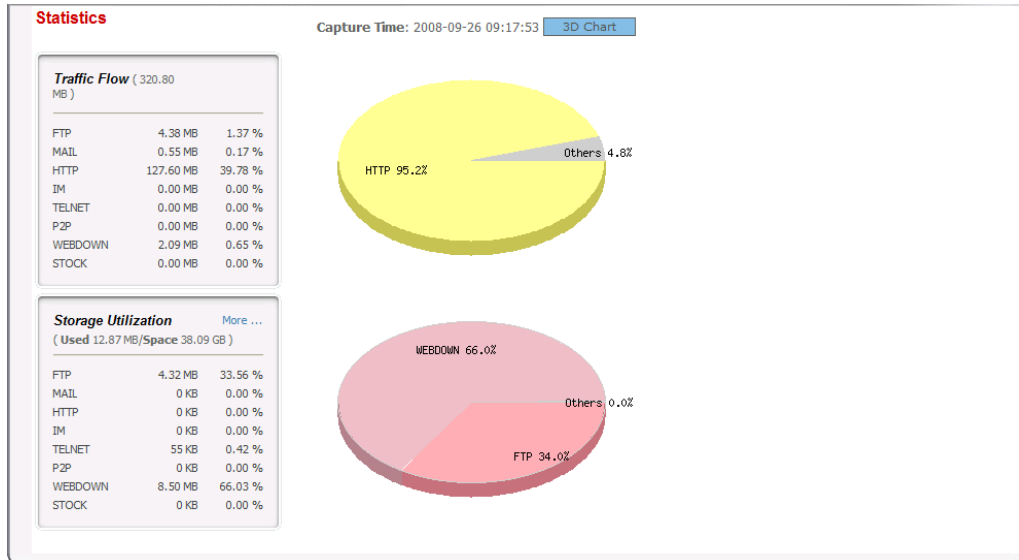


Latest 20 days

Such table can display daily service traffic report. In addition, you can choose any day by using the drop-down list for viewing the monitoring report of other day.

3.5.2 Statistics

Traffic and storage utilization will be displayed with table, 3D Chart and Pie Chart for your reference. Simply click the **3D Chart/Pie Chart** button to have a clear view for statistics.

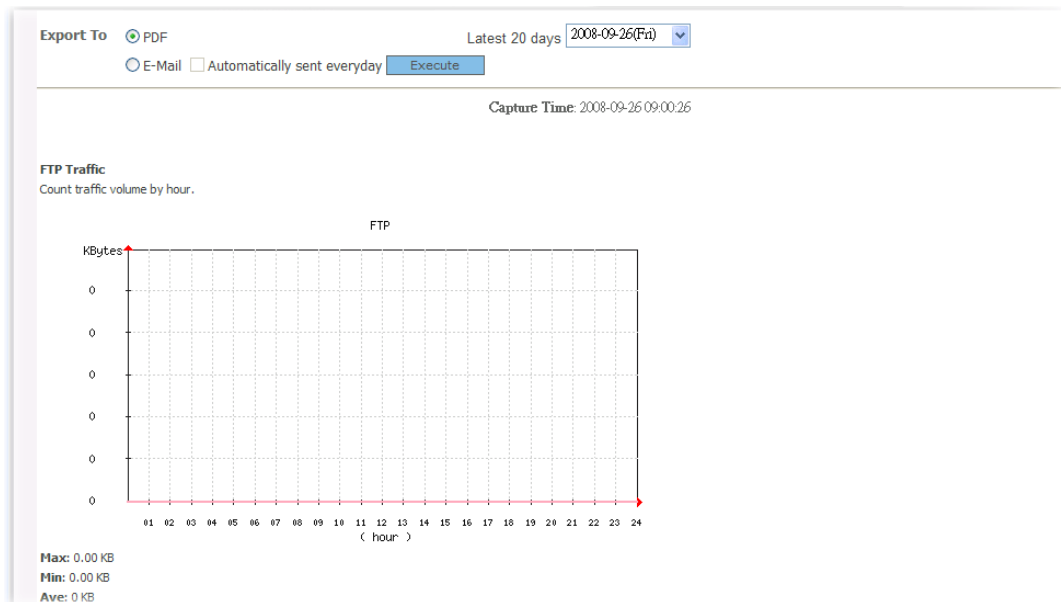


3.5.3 Preview & Export

Such page displays all the data traffic volume on FTP, MAIL, HTTP, IM, TELNET, P2P and Top 10 within one day with bar chart and table.

All the data can be previewed in this page and exported with PDF files for off-line viewing by the administrator.

Besides, this page also provides reports delivering to the administrator if the radio button of E-Mail is selected. Everyday the administrator can receive the daily network report transferred by SmartMonitor to inspect the usage of network without logging into SmartMonitor.



Export To:

PDF - The statistics report can be exported as a PDF file. Click the **PDF** radio button and click **Execute**. A file download dialog box will appear.

In general, the file will be stored with the name of "SmartMonitro_Report.pdf". Please click **Save** to save it and view it later. Or, click **Open** to view it right away.

E-MAIL- The statistics report can be sent to the e-mail address specified in **System>>Admin** automatically based on the account you use for logging into SmartMonitor. If you want to get such statistics from SmartMonitor everyday, simply check the box of "**Automatically sent everyday**". Next, click **Execute**.

Latest 20 days

Such table can display statistics of the latest 20 days. You can choose any day by using the drop-down list for viewing the monitoring report.

4

Application

4.1 Be a Good Network Administrator

To the network administrators, they always care about how to deploy the best firewall to maximum the enterprise efficiency. However, in configuring the firewall, corresponding information for reference always is shortage. Usually, the administrator can just configure the firewall with personal subject judge. Therefore, the best configuration of the firewall always cannot be reached easily.

After configuring SmartMonitor, the above distress can be improved. SmartMonitor not only is a monitoring tool, but also provides guidance to configure the firewall for the administrator with the rich statistics information.

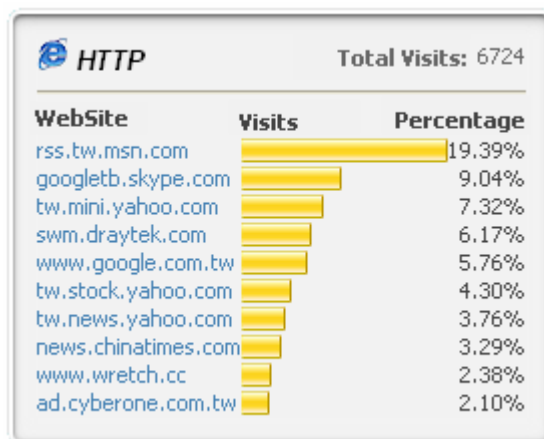
4.1.1 Reducing Web Page Visiting of Non-Work Usage

Employers always browse various web pages for their jobs. Some of the web pages have something to do with their jobs, however, some of them do not. Therefore, the network administrator usually wishes to reduce the web page visiting that has no relationship with the work.

With the statistics function of Smart Monitor, the web sites which are visited frequently and not related to the jobs will be blocked in the firewall easily.

To achieve such purpose, follow the steps below:

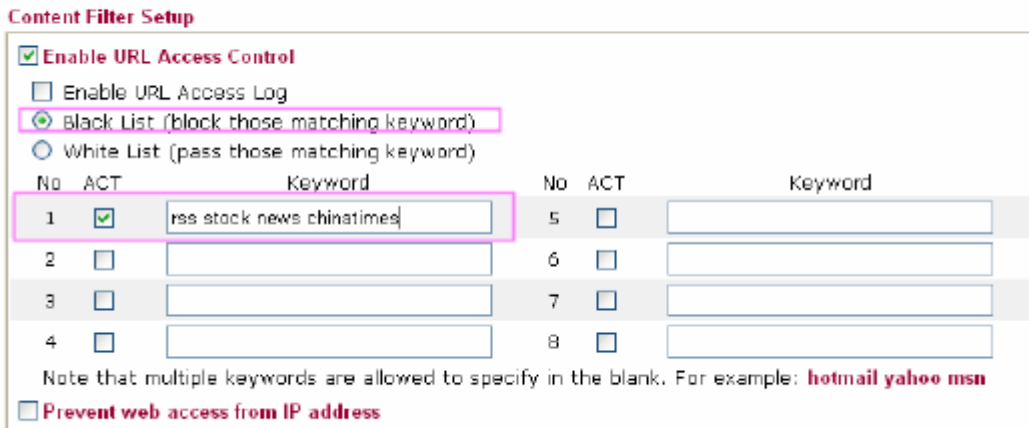
A. Use the Service Top 10 function of SmartMonitor (Service Analyssi>> Top 10).



From the above figure we can see that *rss.tw.msn.com*, *tw.stock.yahoo.com*, *news.chinatimes.com* typically are not related to the jobs. That is, they should be forbidden.

In addition, we also can find several common keywords, rss, stock, news, chinatimes. Next, we can open firewall setting page for configuration.

B. Open **Firewall>>URL Content Filter** by accessing Vigor router's web configurator.



With the above two steps, these websites being visited frequently can be blocked. Meanwhile, the related news web site, stock web site will be filtered.

However, users always will try and change another route if they find one way being blocked. To solve this problem, simply observe the usage custom for a time-spam and repeat the above steps to optimize the firewall settings. Then, the firewall configuration will be toward to be perfect in the future.

A superior administrator not only manages the users for the whole network, but also he can configure the network for different usage based on the practical conditions. Smart Monitor provides analysis tool to make the analysis of the users' customs in web site visiting for carrying out rule settings.

4.1.2 Reducing IM Application of Non-Work Usage

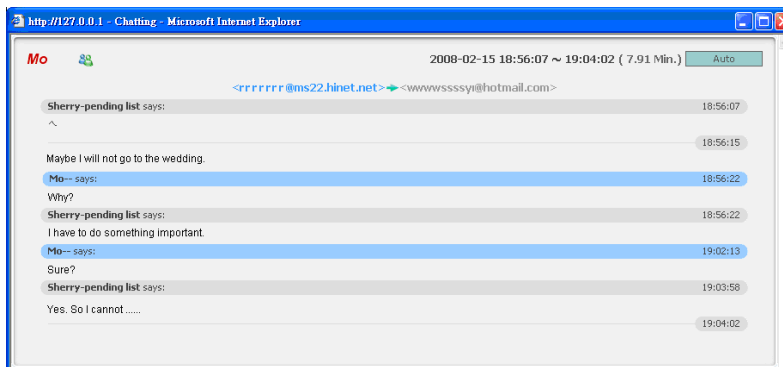
By following the popularization of MSN and QQ, IM software is indispensable to most of the people nowadays. However, the abuse of MSN and QQ has affected the operation efficiency of the enterprise.

Even lots of important data are revealed outside due to the convenience of IM application. SmartMonitor not only records the chatting of IM, but also restores the chatting records faithfully. Thus, all the information transferred by IM can be recorded, viewed and searched at any time.

There are two ways of recording IM offered for the administrator for a reference:

A. Chatting record of the user

The chatting record can be viewed through **Service Analysis>>IM**.



B. Top 10 of IM Usage

There are two ranking records for the administrator to check, one is user top 10 and the other is service top 10.

From these two rankings, we can know the habit of the user and the IM account appeared frequently. With these two records, the administrator can analyze the using custom of the users and provide suggestions for configuring suitable firewall settings.

For the one who often uses IM for chatting only, we can configure the firewall setting by accessing the router's web configurator to block the application of IM of that user.

Profile Index : 2

Profile Name:

Check for Disallow :

IM			VoIP
<input type="checkbox"/> MSN	<input type="checkbox"/> Yahoo Messenger	<input type="checkbox"/> ICQ	
<input type="checkbox"/> AIM	<input type="checkbox"/> QQ	<input type="checkbox"/> iChat	
<input type="checkbox"/> Google Talk			<input type="checkbox"/> jajah
<input type="checkbox"/> Web IM (http://www.e-messenger.net/)			<input type="checkbox"/> Skype
<input type="checkbox"/> Web MSN (http://webmessenger.msn.com/)			

P2P	
Protocol	Applications
<input type="checkbox"/> SoulSeek	SoulSeek
<input type="checkbox"/> eDonkey	eDonkey, eMule, Shareaza
<input type="checkbox"/> FastTrack	KazaA, iMesh
<input type="checkbox"/> Gnutella	BearShare, Limewire, Shareaza
<input type="checkbox"/> BitTorrent	BitTorrent

Simply check the items for disallow and configure the rule of the firewall, it can make the specified user not using some/several IM software.

4.1.3 Best Configuration for Other Network Service

Basically, SmartMonitor contains main stream of network applications. By monitoring the application of Telnet, e-mail, and P2P, the administrator can use SmartMonitor to analyze the problems encountered or low usage efficiency via the charts and diagrams on SmartMonitor.

More important is that Vigor series firewall router also offers sufficient built-in service configuration for IM and P2P applications. The administrator can make a good control through the firewall configuration.

With the joint application of Smart Monitor and Vigor router, enterprise network can be utilized with highest efficiency.

4.2 Leading in Self-Managing for Creating High Efficiency Office Environment

The purpose of management is to increase the work efficiency of the enterprise. Many companies strengthen the management vigor in every phase just for such purpose. However, we always find that employers can not accept such limits due to the severe network rule limitations. As a result, managing problem might be brought out and affect the work efficiency.

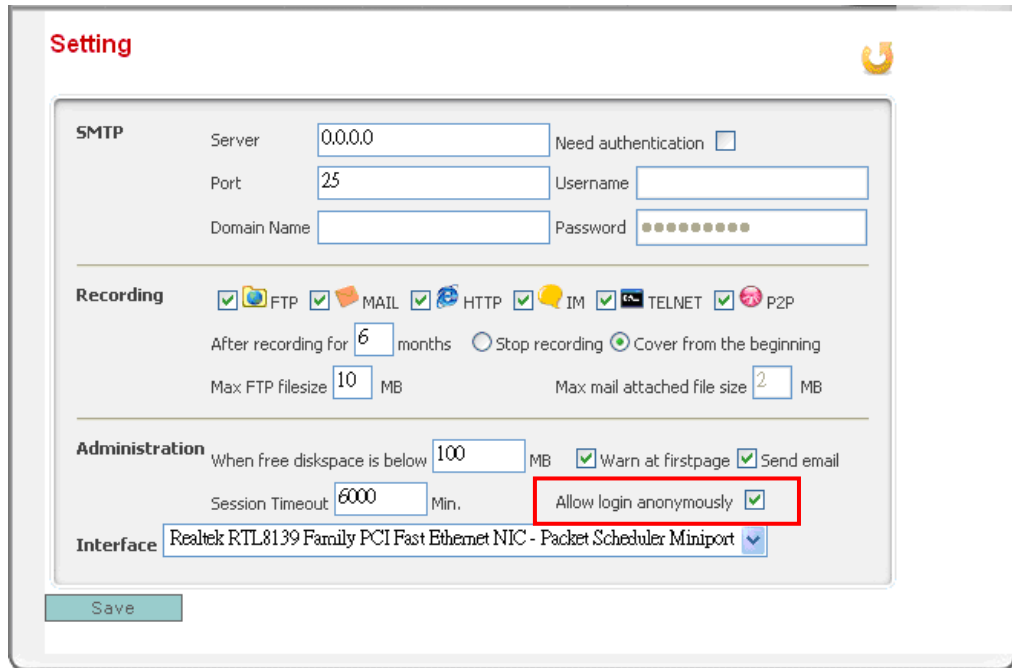
To solve such problem, Smart Monitor offers simple system ranking to assist the users in enterprise to do self-management. Smart Monitor can carry out ranking for various network applications and list the Top 10. Such ranking can be open to anonymous users for checking.

Users can check their network ranking with anonymous logging to Smart Monitor. For example, if it is not necessary for the user to use IM software excessively in his work, the user will reduce the usage of IM software when he finds the IM application ranking has been listed in Top 10.

When all the users in the enterprise can think network application over and over and reduce the IM application, a trend of reducing IM application will be produced automatically. Thus, self-management for every user can be reached freely and easily.

Below shows the steps to make anonymous logging for all users in an enterprise:

1. Open **System>>Setting** and check **Allow login anonymously**.



The screenshot shows the 'Setting' window with several sections:

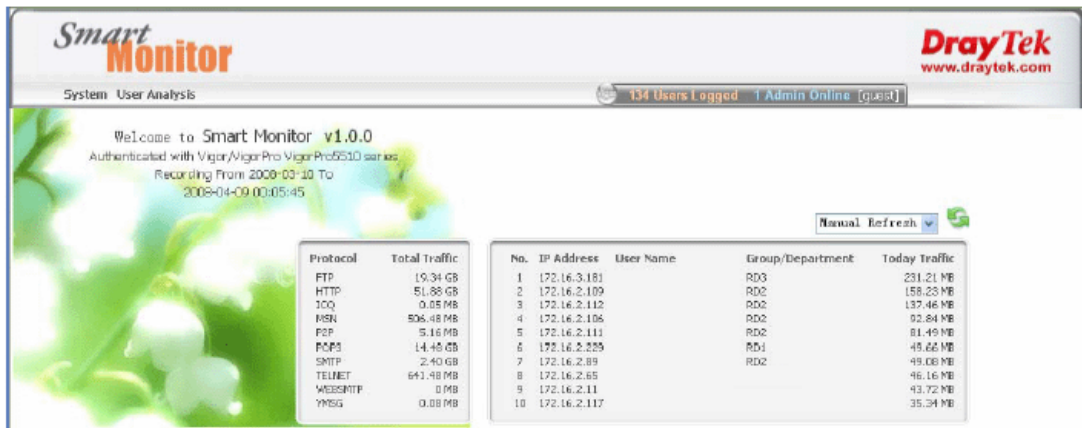
- SMTP:** Server (0.0.0.0), Port (25), Domain Name, Username, Password, and Need authentication (unchecked).
- Recording:** Checkboxes for FTP, MAIL, HTTP, IM, TELNET, and P2P are all checked. 'After recording for' is set to 6 months. 'Cover from the beginning' is selected. Max FTP filesize is 10 MB, and Max mail attached file size is 2 MB.
- Administration:** 'When free disk space is below' is set to 100 MB. 'Warn at firstpage' and 'Send email' are checked. 'Session Timeout' is 6000 Min. The 'Allow login anonymously' checkbox is checked and highlighted with a red box.
- Interface:** Set to 'Realtek RTL8139 Family PCI Fast Ethernet NIC - Packet Scheduler Miniport'.

A 'Save' button is located at the bottom left of the window.

2. Use a browser to open Smart Monitor interface. Click **Anonymous Login**.



3. The web page for anonymous login will be displayed on the screen with few menu items.



Anonymous user can only view top 10 of traffic usage and top 10 of users. Therefore the anonymous user can check if the usage traffic and network service of the user has been listed on Top 10.

After deploying SmartMonitor, the administrator can notify all the users of anonymous logging. Everyone can check the network application by himself at any time. Even, they can remind for each other and restrain their network behavior. Thus, self management mechanism can be achieved easily in the whole network.